

CAMPSBAY Double-830-45°



| | | |
|---------------------|---------|--------------------------|
| Light Output Ratio: | 100.0% | |
| Luminaire Power: | 11.18 W | |
| SHR Nominal: | 0.00 | Calculated using the TM5 |
| SHR Maximum: | 1.00 | fine grid method. |

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature: 25.3DEG
Operators: Jason
Test Date: 2020-06-29

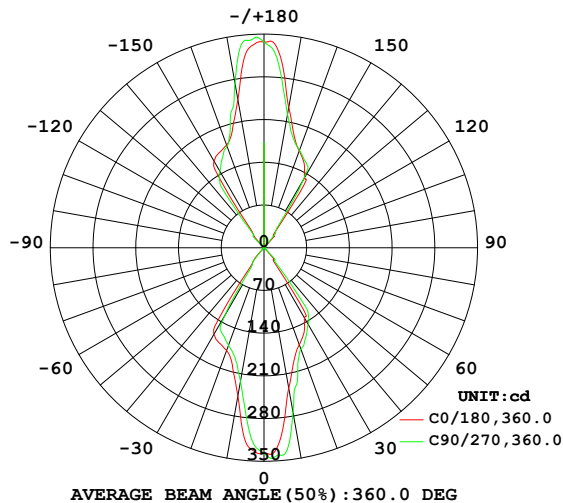
γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System: EVERFINE GO-2000_V1 SYSTEM V2.0.362
Humidity: 65.0%
Test Distance: 5.850m [K=1.7094]
Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

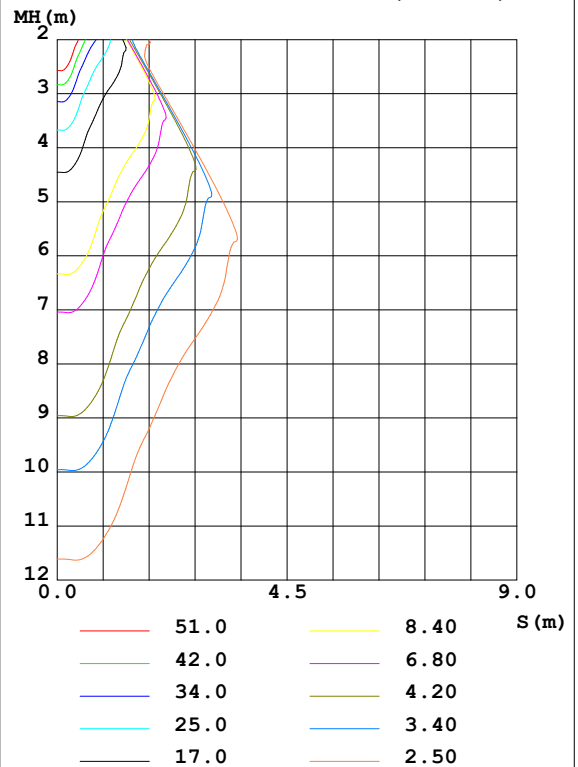
| | | |
|--|--|------------------|
| Test:U:221.1V I:0.0979A P:11.18W PF:0.5167 Freq:49.99Hz Lamp Flux:448.767x1 lm | | |
| NAME: CAMPSBAY Double-830-45° | TYPE: Recessed Ground Light | WEIGHT: |
| SPEC.: 3000K | DIM.: $\varnothing 80\text{mm} \times H138\text{mm}$ | SERIAL No.: |
| MFR.: NEKO LIGHTING AG | SUR.: $\varnothing 80\text{mm}$ | Shielding Angle: |

| DATA OF LAMP | | PHOTOMETRIC DATA | | | | Eff: 40.13 lm/W |
|-------------------|---------|-----------------------|---------|--------------------------|------------|-----------------|
| MODEL | 3000K | I _{max} (cd) | 424.0 | S/MH (C0/180) | 0.59 | |
| NOMINAL POWER (W) | 11 | LOR (%) | 100.0 | S/MH (C90/270) | 0.53 | |
| RATED VOLTAGE (V) | 220.0 | TOTAL FLUX (lm) | 448.77 | η UP, DN (C0-180) | 20.7, 29.3 | |
| NOMINAL FLUX (lm) | 448.767 | CIE CLASS | DIFFUSE | η UP, DN (C180-360) | 29.3, 20.7 | |
| LAMPS INSIDE | 1 | η up (%) | 50.0 | CIBSE SHR NOM | 0.00 | |
| TEST VOLTAGE (V) | 220.0 | η down (%) | 50.0 | CIBSE SHR MAX | 1.00 | |

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature: 25.3DEG
Operators: Jason
Test Date: 2020-06-29

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
Test System: EVERFINE GO-2000_V1 SYSTEM V2.0.362
Humidity: 65.0%
Test Distance: 5.850m [K=1.7094]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

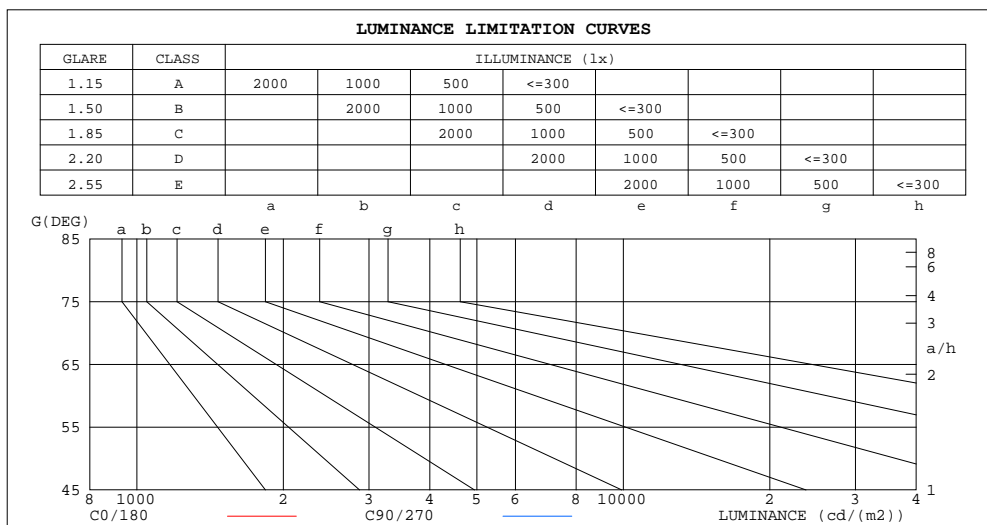
| γ | C0 | C45 | C90 | C135 | C180 | C225 | C270 | C315 | γ | Φ zone | Φ total | Φ lum, lamp |
|----------|-----------------------|--------|--------|--------|--------|--------|--------|--------|----------|-------------|--------------|------------------|
| 10 | 233.9 | 263.9 | 274.4 | 339.0 | 246.9 | 227.1 | 222.2 | 219.9 | 0- 10 | 28.44 | 28.44 | 6.34,6.34 |
| 20 | 169.1 | 174.9 | 177.4 | 221.4 | 179.2 | 174.2 | 170.2 | 186.4 | 10- 20 | 59.28 | 87.72 | 19.5,19.5 |
| 30 | 132.9 | 142.1 | 144.8 | 192.0 | 163.9 | 156.6 | 129.1 | 38.72 | 20- 30 | 75.31 | 163.0 | 36.3,36.3 |
| 40 | 24.33 | 24.15 | 26.61 | 51.50 | 25.05 | 15.67 | 15.17 | 5.586 | 30- 40 | 48.03 | 211.1 | 47,47 |
| 50 | 3.327 | 3.982 | 3.899 | 5.498 | 3.323 | 2.905 | 2.882 | 2.519 | 40- 50 | 9.063 | 220.1 | 49.1,49.1 |
| 60 | 1.472 | 1.799 | 1.721 | 2.364 | 1.467 | 1.399 | 1.300 | 1.113 | 50- 60 | 2.182 | 222.3 | 49.5,49.5 |
| 70 | 0.6474 | 0.7799 | 0.7703 | 1.013 | 0.7026 | 0.6477 | 0.4785 | 0.5402 | 60- 70 | 1.066 | 223.4 | 49.8,49.8 |
| 80 | 0.2834 | 0.3273 | 0.3664 | 0.5141 | 0.5015 | 0.6405 | 0.6874 | 0.1364 | 70- 80 | 0.6077 | 224.0 | 49.9,49.9 |
| 90 | 0.1061 | 0.0252 | 0.0460 | 0.2274 | 0.3807 | 0.2043 | 0.0376 | 0.0522 | 80- 90 | 0.4068 | 224.4 | 50,50 |
| 100 | 0.2834 | 0.1364 | 0.6874 | 0.6405 | 0.5015 | 0.5141 | 0.3664 | 0.3273 | 90-100 | 0.4068 | 224.8 | 50.1,50.1 |
| 110 | 0.6474 | 0.5402 | 0.4785 | 0.6477 | 0.7026 | 1.013 | 0.7703 | 0.7799 | 100-110 | 0.6077 | 225.4 | 50.2,50.2 |
| 120 | 1.472 | 1.113 | 1.300 | 1.399 | 1.467 | 2.364 | 1.721 | 1.799 | 110-120 | 1.066 | 226.5 | 50.5,50.5 |
| 130 | 3.327 | 2.519 | 2.882 | 2.905 | 3.323 | 5.498 | 3.899 | 3.982 | 120-130 | 2.182 | 228.6 | 50.9,50.9 |
| 140 | 24.33 | 5.586 | 15.17 | 15.67 | 25.05 | 51.50 | 26.61 | 24.15 | 130-140 | 9.063 | 237.7 | 53,53 |
| 150 | 132.9 | 38.72 | 129.1 | 156.6 | 163.9 | 192.0 | 144.8 | 142.1 | 140-150 | 48.03 | 285.7 | 63.7,63.7 |
| 160 | 169.1 | 186.4 | 170.2 | 174.2 | 179.2 | 221.4 | 177.4 | 174.9 | 150-160 | 75.31 | 361.0 | 80.5,80.5 |
| 170 | 233.9 | 219.9 | 222.2 | 227.1 | 246.9 | 339.0 | 274.4 | 263.9 | 160-170 | 59.28 | 420.3 | 93.7,93.7 |
| 180 | 336.9 | 336.9 | 336.9 | 336.9 | 336.9 | 336.9 | 336.9 | 336.9 | 170-180 | 28.44 | 448.8 | 100,100 |
| DEG | LUMINOUS INTENSITY:cd | | | | | | | | | UNIT:lm | | |

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:Jason
Test Date:2020-06-29

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 γ Test System:EVERFINE GO-2000_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:5.850m [K=1.7094]
Remarks:

LUMINANCE LIMITATION CURVES

| | | |
|--|---|------------------|
| Test:U:221.1V I:0.0979A P:11.18W PF:0.5167 Freq:49.99Hz Lamp Flux:448.767x1 lm | | |
| NAME: CAMPSBAY Double-830-45° | TYPE: Recessed Ground Light | WEIGHT: |
| SPEC.: 3000K | DIM.: $\phi 80\text{mm} \times H138\text{mm}$ | SERIAL No.: |
| MFR.: NEKO LIGHTING AG | SUR.: $\phi 80\text{mm}$ | Shielding Angle: |



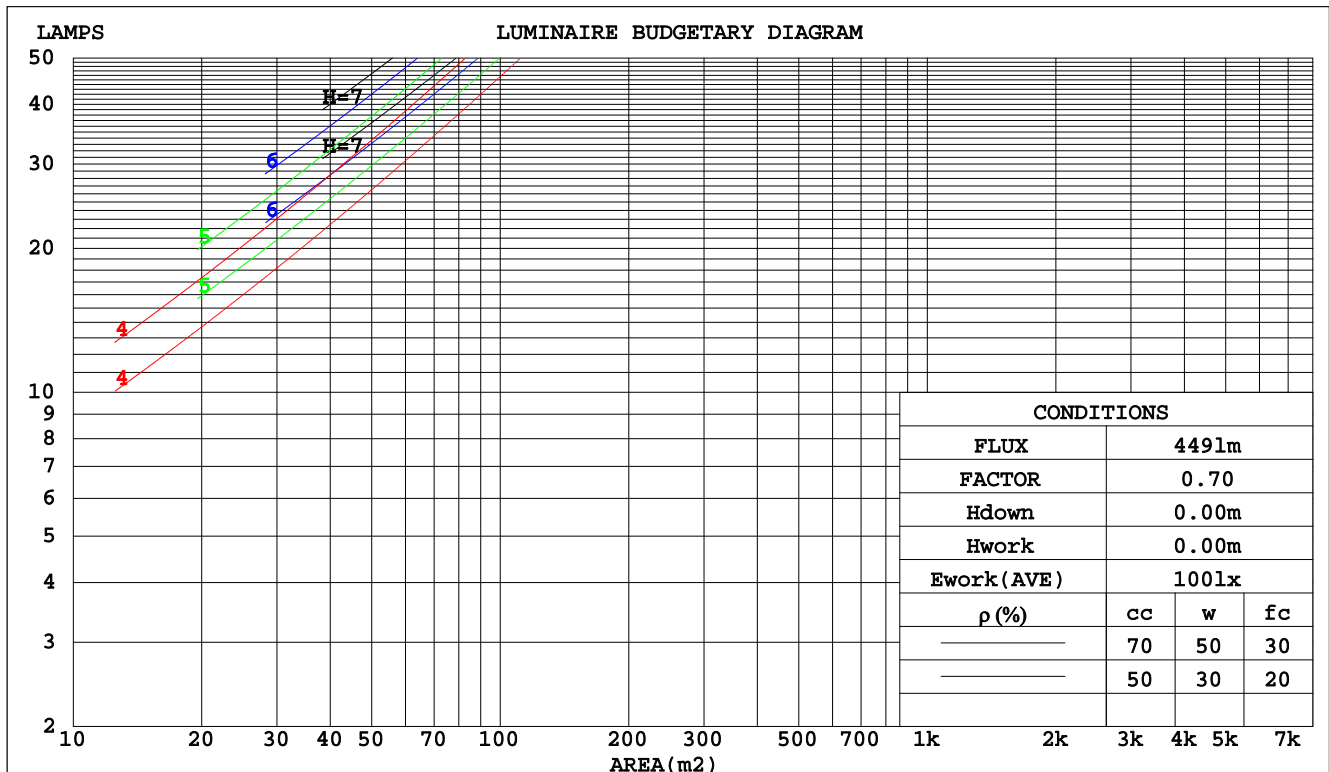
C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature: 25.3DEG
Operators: Jason
Test Date: 2020-06-29

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
Test System: EVERFINE GO-2000_V1 SYSTEM V2.0.362
Humidity: 65.0%
Test Distance: 5.850m [K=1.7094]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

| | | |
|--|---|------------------|
| Test:U:221.1V I:0.0979A P:11.18W PF:0.5167 Freq:49.99Hz Lamp Flux:448.767x1 lm | | |
| NAME: CAMPSBAY Double-830-45° | TYPE: Recessed Ground Light | WEIGHT: |
| SPEC.: 3000K | DIM.: $\phi 80\text{mm} \times H138\text{mm}$ | SERIAL No.: |
| MFR.: NEKO LIGHTING AG | SUR.: $\phi 80\text{mm}$ | Shielding Angle: |

| ρ_{cc} | 80% | | | 70% | | | 50% | | | 30% | | | 10% | | | 0 |
|-------------|-----------------------|------|------|-----|-----|-----|---------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| ρ_w | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 0 |
| ρ_{fc} | 20% | | | 20% | | | 20% | | | 20% | | | 20% | | | 0 |
| RCR | RCR:Room Cavity Ratio | | | | | | Coefficients of Utilization(CU) | | | | | | | | | |
| 0.0 | 1.07 | 1.07 | 1.07 | .99 | .99 | .99 | .83 | .83 | .83 | .69 | .69 | .69 | .56 | .56 | .56 | .50 |
| 1.0 | .97 | .94 | .91 | .90 | .87 | .85 | .76 | .75 | .73 | .64 | .63 | .62 | .53 | .53 | .52 | .47 |
| 2.0 | .88 | .83 | .79 | .82 | .78 | .74 | .70 | .67 | .65 | .60 | .58 | .56 | .50 | .49 | .48 | .44 |
| 3.0 | .80 | .74 | .69 | .75 | .70 | .66 | .65 | .61 | .58 | .56 | .53 | .51 | .47 | .46 | .44 | .41 |
| 4.0 | .73 | .67 | .62 | .68 | .63 | .59 | .60 | .56 | .53 | .52 | .49 | .47 | .45 | .43 | .41 | .38 |
| 5.0 | .67 | .60 | .56 | .63 | .57 | .53 | .56 | .51 | .48 | .49 | .46 | .43 | .42 | .40 | .38 | .35 |
| 6.0 | .62 | .55 | .50 | .58 | .52 | .48 | .52 | .47 | .44 | .45 | .42 | .40 | .40 | .38 | .36 | .33 |
| 7.0 | .57 | .51 | .46 | .54 | .48 | .44 | .48 | .44 | .41 | .43 | .39 | .37 | .38 | .35 | .33 | .31 |
| 8.0 | .53 | .47 | .42 | .50 | .45 | .41 | .45 | .41 | .37 | .40 | .37 | .34 | .36 | .33 | .31 | .29 |
| 9.0 | .49 | .43 | .39 | .47 | .41 | .37 | .42 | .38 | .35 | .38 | .35 | .32 | .34 | .31 | .30 | .28 |
| 10.0 | .46 | .40 | .36 | .44 | .39 | .35 | .40 | .35 | .32 | .36 | .32 | .30 | .32 | .30 | .28 | .26 |



C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature: 25.3DEG
Operators: Jason
Test Date: 2020-06-29

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
Test System: EVERFINE GO-2000_V1 SYSTEM V2.0.362
Humidity: 65.0%
Test Distance: 5.850m [K=1.7094]
Remarks:

WEC AND CCEC

| | | |
|--|---------------------------------|------------------|
| Test:U:221.1V I:0.0979A P:11.18W PF:0.5167 Freq:49.99Hz Lamp Flux:448.767x1 lm | | |
| NAME: CAMPSBAY Double-830-45° | TYPE: Recessed Ground Light | WEIGHT: |
| SPEC.: 3000K | DIM.: \varnothing 80mm*H138mm | SERIAL No.: |
| MFR.: NEKO LIGHTING AG | SUR.: \varnothing 80mm | Shielding Angle: |

| pcc | 80% | | | 70% | | | 50% | | | 30% | | | 10% | | | 0 |
|------|-----------------------|------|------|------|------|------|---------------------------------|------|------|------|------|------|------|------|------|---|
| pw | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 0 |
| pfc | 20% | | | 20% | | | 20% | | | 20% | | | 20% | | | 0 |
| RCR | RCR:Room Cavity Ratio | | | | | | Wall Exitance Coefficients(WEC) | | | | | | | | | |
| 0.0 | | | | | | | | | | | | | | | | |
| 1.0 | .217 | .124 | .039 | .196 | .112 | .035 | .154 | .089 | .028 | .117 | .067 | .022 | .082 | .048 | .015 | |
| 2.0 | .203 | .111 | .034 | .183 | .101 | .031 | .146 | .081 | .025 | .112 | .063 | .020 | .080 | .045 | .014 | |
| 3.0 | .190 | .101 | .030 | .172 | .092 | .028 | .138 | .075 | .023 | .106 | .058 | .018 | .077 | .043 | .013 | |
| 4.0 | .178 | .092 | .027 | .161 | .084 | .025 | .130 | .069 | .021 | .102 | .055 | .016 | .075 | .041 | .012 | |
| 5.0 | .167 | .085 | .025 | .152 | .078 | .023 | .123 | .064 | .019 | .097 | .051 | .015 | .072 | .038 | .012 | |
| 6.0 | .157 | .079 | .023 | .143 | .072 | .021 | .117 | .060 | .017 | .092 | .048 | .014 | .069 | .037 | .011 | |
| 7.0 | .148 | .073 | .021 | .136 | .068 | .019 | .111 | .056 | .016 | .088 | .045 | .013 | .067 | .035 | .010 | |
| 8.0 | .140 | .069 | .019 | .129 | .063 | .018 | .106 | .053 | .015 | .084 | .043 | .012 | .064 | .033 | .010 | |
| 9.0 | .133 | .064 | .018 | .122 | .060 | .017 | .101 | .050 | .014 | .081 | .041 | .012 | .062 | .032 | .009 | |
| 10.0 | .127 | .061 | .017 | .116 | .056 | .016 | .096 | .047 | .013 | .078 | .039 | .011 | .060 | .030 | .009 | |

| pcc | 80% | | | 70% | | | 50% | | | 30% | | | 10% | | | 0 |
|------|-----------------------|------|------|------|------|------|--|------|------|------|------|------|------|------|------|---|
| pw | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 0 |
| pfc | 20% | | | 20% | | | 20% | | | 20% | | | 20% | | | 0 |
| RCR | RCR:Room Cavity Ratio | | | | | | Ceiling Cavity Exitance Coefficients(CCEC) | | | | | | | | | |
| 0.0 | .571 | .571 | .571 | .488 | .488 | .488 | .333 | .333 | .333 | .191 | .191 | .191 | .061 | .061 | .061 | |
| 1.0 | .558 | .541 | .526 | .477 | .464 | .453 | .327 | .319 | .313 | .188 | .185 | .182 | .060 | .060 | .059 | |
| 2.0 | .547 | .519 | .495 | .469 | .447 | .428 | .321 | .309 | .299 | .185 | .180 | .175 | .059 | .058 | .057 | |
| 3.0 | .538 | .503 | .474 | .461 | .433 | .411 | .317 | .301 | .289 | .183 | .176 | .170 | .059 | .057 | .056 | |
| 4.0 | .530 | .490 | .459 | .455 | .423 | .399 | .313 | .295 | .281 | .181 | .173 | .166 | .058 | .056 | .055 | |
| 5.0 | .523 | .480 | .448 | .449 | .415 | .390 | .309 | .290 | .275 | .179 | .170 | .163 | .058 | .056 | .054 | |
| 6.0 | .516 | .472 | .440 | .444 | .409 | .383 | .306 | .286 | .271 | .178 | .168 | .161 | .057 | .055 | .053 | |
| 7.0 | .510 | .465 | .434 | .439 | .403 | .378 | .303 | .283 | .268 | .176 | .167 | .160 | .057 | .055 | .053 | |
| 8.0 | .505 | .460 | .429 | .435 | .399 | .374 | .301 | .280 | .265 | .175 | .165 | .158 | .057 | .054 | .052 | |
| 9.0 | .500 | .456 | .425 | .431 | .395 | .371 | .299 | .278 | .263 | .174 | .164 | .157 | .056 | .054 | .052 | |
| 10.0 | .496 | .452 | .422 | .427 | .392 | .369 | .296 | .276 | .262 | .173 | .163 | .156 | .056 | .054 | .052 | |

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature: 25.3DEG
Operators: Jason
Test Date: 2020-06-29

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
Test System: EVERFINE GO-2000_V1 SYSTEM V2.0.362
Humidity: 65.0%
Test Distance: 5.850m [K=1.7094]
Remarks:

UGR(Unified Glare Rating) Table

| | | | | | | | | | | | |
|--|------------------|-----|-----|-----|----------------------------|----------------|-----|------------------|-----|-----|-----|
| Test:U:221.1V I:0.0979A P:11.18W PF:0.5167 Freq:49.99Hz Lamp Flux:448.767x1 lm | | | | | | | | | | | |
| NAME: CAMPSBAY Double-830-45° | | | | | TYPE:Recessed Ground Light | | | WEIGHT: | | | |
| SPEC.:3000K | | | | | DIM.: φ80mm*H138mm | | | SERIAL No.: | | | |
| MFR.: NEKO LIGHTING AG | | | | | SUR.:φ80mm | | | Shielding Angle: | | | |
| ceiling/cavity | 0.7 | 0.7 | 0.5 | 0.5 | 0.3 | 0.7 | 0.7 | 0.5 | 0.5 | 0.3 | |
| walls | 0.5 | 0.3 | 0.5 | 0.3 | 0.3 | 0.5 | 0.3 | 0.5 | 0.3 | 0.3 | |
| working plane | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | |
| Room dimensions | Viewed crosswise | | | | | Viewed endwise | | | | | |
| | | | | | | | | | | | |
| x = 2H y = 2H | 2H | 2.1 | 2.9 | 3.0 | 3.7 | 4.7 | 3.4 | 4.1 | 4.2 | 4.9 | 5.9 |
| | 3H | 1.8 | 2.5 | 2.7 | 3.3 | 4.4 | 3.1 | 3.7 | 3.9 | 4.6 | 5.6 |
| | 4H | 1.7 | 2.3 | 2.6 | 3.2 | 4.3 | 2.9 | 3.5 | 3.8 | 4.4 | 5.5 |
| | 6H | 1.5 | 2.1 | 2.4 | 3.0 | 4.1 | 2.7 | 3.3 | 3.7 | 4.2 | 5.3 |
| | 8H | 1.5 | 2.0 | 2.4 | 2.9 | 4.0 | 2.7 | 3.2 | 3.6 | 4.1 | 5.2 |
| | 12H | 1.4 | 1.9 | 2.3 | 2.8 | 3.9 | 2.6 | 3.1 | 3.5 | 4.0 | 5.2 |
| 4H | 2H | 1.7 | 2.3 | 2.6 | 3.2 | 4.2 | 2.9 | 3.5 | 3.8 | 4.4 | 5.5 |
| | 3H | 1.4 | 1.9 | 2.3 | 2.8 | 3.9 | 2.6 | 3.1 | 3.5 | 4.0 | 5.1 |
| | 4H | 1.2 | 1.7 | 2.2 | 2.6 | 3.8 | 2.4 | 2.9 | 3.4 | 3.8 | 5.0 |
| | 6H | 1.1 | 1.5 | 2.0 | 2.4 | 3.6 | 2.3 | 2.7 | 3.2 | 3.6 | 4.8 |
| | 8H | 1.0 | 1.3 | 2.0 | 2.3 | 3.5 | 2.2 | 2.5 | 3.2 | 3.5 | 4.7 |
| | 12H | 0.9 | 1.2 | 1.9 | 2.2 | 3.5 | 2.1 | 2.4 | 3.1 | 3.4 | 4.7 |
| 8H | 4H | 1.0 | 1.3 | 1.9 | 2.3 | 3.5 | 2.1 | 2.5 | 3.1 | 3.5 | 4.7 |
| | 6H | 0.8 | 1.1 | 1.8 | 2.1 | 3.4 | 2.0 | 2.3 | 3.0 | 3.3 | 4.6 |
| | 8H | 0.7 | 1.0 | 1.7 | 2.0 | 3.3 | 1.9 | 2.2 | 2.9 | 3.2 | 4.5 |
| | 12H | 0.6 | 0.9 | 1.7 | 1.9 | 3.2 | 1.8 | 2.0 | 2.9 | 3.1 | 4.4 |
| 12H | 4H | 0.9 | 1.2 | 1.9 | 2.2 | 3.4 | 2.1 | 2.4 | 3.1 | 3.4 | 4.6 |
| | 6H | 0.7 | 1.0 | 1.7 | 2.0 | 3.3 | 1.9 | 2.2 | 2.9 | 3.2 | 4.5 |
| | 8H | 0.6 | 0.8 | 1.7 | 1.9 | 3.2 | 1.8 | 2.0 | 2.8 | 3.1 | 4.4 |
| Variations with the observer position at spacings: | | | | | | | | | | | |
| S = 1.0H | + 3.3 / - 5.4 | | | | | + 5.1 / - 7.0 | | | | | |
| | + 3.7 / - 4.6 | | | | | + 7.4 / - 6.2 | | | | | |
| | + 1.8 / - 1.5 | | | | | + 7.5 / - 2.3 | | | | | |

CIE Pub.117, 448.8 lm Total Lamp Luminous Flux Correct ($8\log(F/F_0) = -2.8$)

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature: 25.3DEG
Operators: Jason
Test Date: 2020-06-29

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
Test System: EVERFINE GO-2000_V1 SYSTEM V2.0.362
Humidity: 65.0%
Test Distance: 5.850m [K=1.7094]
Remarks:

UTILIZATION FACTORS TABLE

| | | |
|--|--|------------------|
| Test:U:221.1V I:0.0979A P:11.18W PF:0.5167 Freq:49.99Hz Lamp Flux:448.767x1 lm | | |
| NAME: CAMPSBAY Double-830-45° | TYPE: Recessed Ground Light | WEIGHT: |
| SPEC.: 3000K | DIM.: $\varnothing 80\text{mm} \times H138\text{mm}$ | SERIAL No.: |
| MFR.: NEKO LIGHTING AG | SUR.: $\varnothing 80\text{mm}$ | Shielding Angle: |

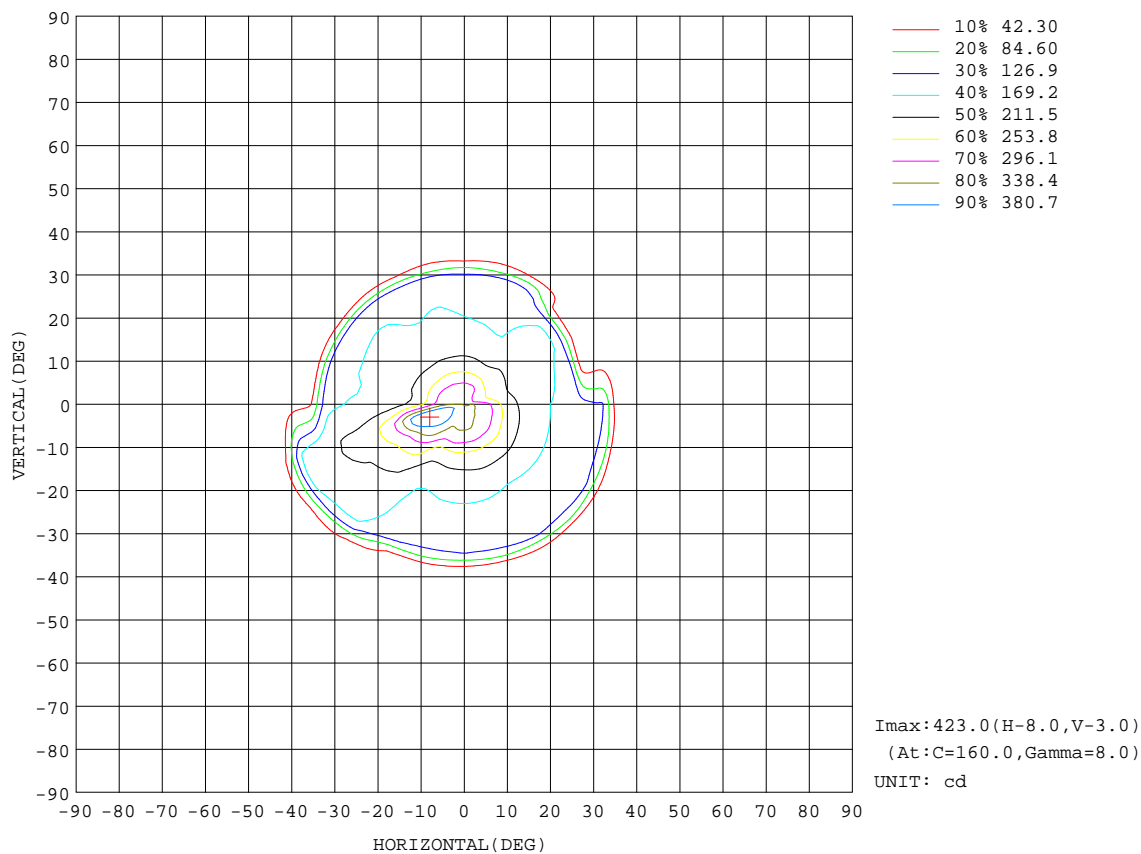
| REFLECTANCE | | | | | | | | | | |
|----------------------------------|---|-----|-----|-----|-----|-----|-----|-----|-----|--------|
| Ceiling | 0.8 | 0.8 | 0.8 | 0.7 | 0.7 | 0.7 | 0.5 | 0.5 | 0.5 | 0 |
| Walls | 0.7 | 0.5 | 0.3 | 0.7 | 0.5 | 0.3 | 0.7 | 0.5 | 0.3 | 0 |
| Working plane | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0 |
| ROOM INDEX | UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$ | | | | | | | | | |
| $k = 0.60$ | 60 | 52 | 47 | 57 | 50 | 46 | 52 | 47 | 44 | 37 |
| 0.80 | 68 | 60 | 55 | 64 | 57 | 53 | 58 | 53 | 50 | 41 |
| 1.00 | 74 | 65 | 60 | 70 | 62 | 58 | 62 | 58 | 54 | 43 |
| 1.25 | 79 | 71 | 66 | 74 | 68 | 63 | 66 | 61 | 58 | 45 |
| 1.50 | 83 | 75 | 70 | 78 | 71 | 67 | 68 | 64 | 61 | 46 |
| 2.00 | 88 | 81 | 76 | 82 | 76 | 72 | 71 | 68 | 65 | 47 |
| 2.50 | 91 | 85 | 80 | 85 | 80 | 76 | 73 | 70 | 67 | 47 |
| 3.00 | 94 | 88 | 84 | 87 | 83 | 79 | 75 | 72 | 70 | 48 |
| 4.00 | 97 | 92 | 89 | 90 | 86 | 83 | 77 | 75 | 73 | 49 |
| 5.00 | 99 | 95 | 92 | 92 | 89 | 86 | 78 | 77 | 75 | 49 |
| ROOM INDEX | UF(total) | | | | | | | | | Direct |
| According to DIN EN 13032-2 2004 | | | | | | | | | | |
| Suspended | | | | | | | | | | |
| SHRNOM = 1.25 | | | | | | | | | | |

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: MEDIUM
 Temperature: 25.3DEG
 Operators: Jason
 Test Date: 2020-06-29

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE GO-2000_V1 SYSTEM V2.0.362
 Humidity: 65.0%
 Test Distance: 5.850m [K=1.7094]
 Remarks:

ISOCANDELA DIAGRAM

| | | |
|--|-----------------------------|------------------|
| Test:U:221.1V I:0.0979A P:11.18W PF:0.5167 Freq:49.99Hz Lamp Flux:448.767x1 lm | | |
| NAME: CAMPSBAY Double-830-45° | TYPE: Recessed Ground Light | WEIGHT: |
| SPEC.: 3000K | DIM.: ϕ 80mm*H138mm | SERIAL No.: |
| MFR.: NEKO LIGHTING AG | SUR.: ϕ 80mm | Shielding Angle: |

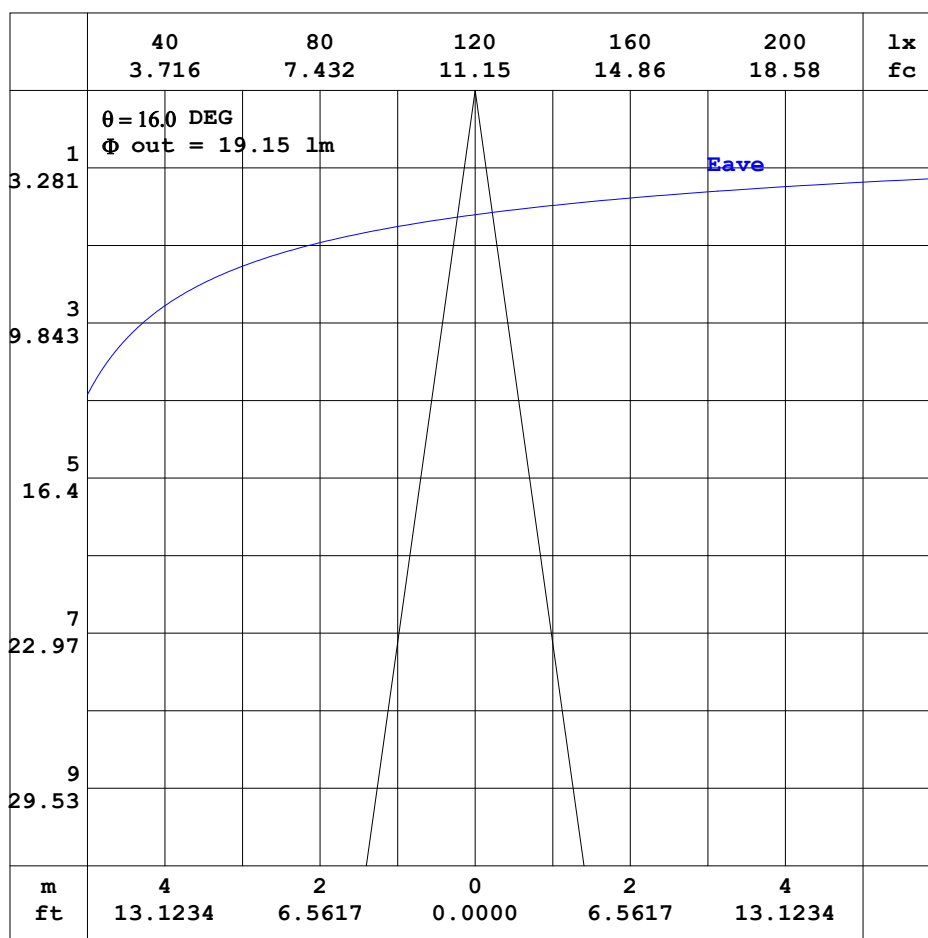


C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature: 25.3DEG
Operators: Jason
Test Date: 2020-06-29

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
Test System: EVERFINE GO-2000_V1 SYSTEM V2.0.362
Humidity: 65.0%
Test Distance: 5.850m [K=1.7094]
Remarks:

AAI CURVES

| | | |
|--|-----------------------------|------------------|
| Test:U:221.1V I:0.0979A P:11.18W PF:0.5167 Freq:49.99Hz Lamp Flux:448.767x1 lm | | |
| NAME: CAMPSBAY Double-830-45° | TYPE: Recessed Ground Light | WEIGHT: |
| SPEC.: 3000K | DIM.: ϕ 80mm*H138mm | SERIAL No.: |
| MFR.: NEKO LIGHTING AG | SUR.: ϕ 80mm | Shielding Angle: |



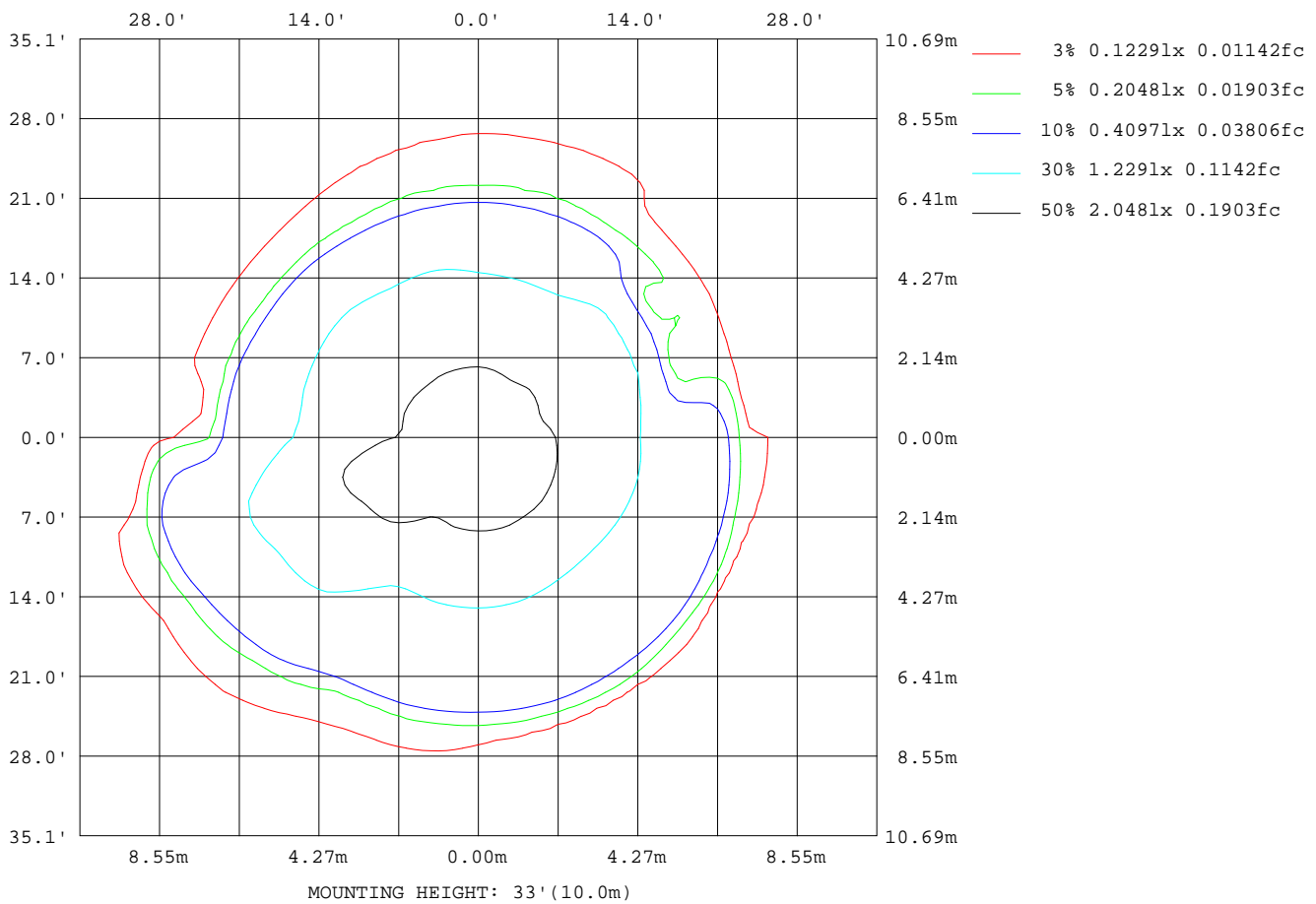
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature: 25.3DEG
Operators: Jason
Test Date: 2020-06-29

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
Test System: EVERFINE GO-2000_V1 SYSTEM V2.0.362
Humidity: 65.0%
Test Distance: 5.850m [K=1.7094]
Remarks:

ISOLUX DIAGRAM

| | | |
|--|-----------------------------|------------------|
| Test:U:221.1V I:0.0979A P:11.18W PF:0.5167 Freq:49.99Hz Lamp Flux:448.767x1 lm | | |
| NAME: CAMPSBAY Double-830-45° | TYPE: Recessed Ground Light | WEIGHT: |
| SPEC.: 3000K | DIM.: ϕ 80mm*H138mm | SERIAL No.: |
| MFR.: NEKO LIGHTING AG | SUR.: ϕ 80mm | Shielding Angle: |



C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature: 25.3DEG
Operators: Jason
Test Date: 2020-06-29

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
Test System: EVERFINE GO-2000_V1 SYSTEM V2.0.362
Humidity: 65.0%
Test Distance: 5.850m [K=1.7094]
Remarks:

LED Avg.L Report

| | | |
|--|-----------------------------|------------------|
| Test:U:221.1V I:0.0979A P:11.18W PF:0.5167 Freq:49.99Hz Lamp Flux:448.767x1 lm | | |
| NAME: CAMPSBAY Double-830-45° | TYPE: Recessed Ground Light | WEIGHT: |
| SPEC.: 3000K | DIM.: ϕ 80mm*H138mm | SERIAL No.: |
| MFR.: NEKO LIGHTING AG | SUR.: ϕ 80mm | Shielding Angle: |

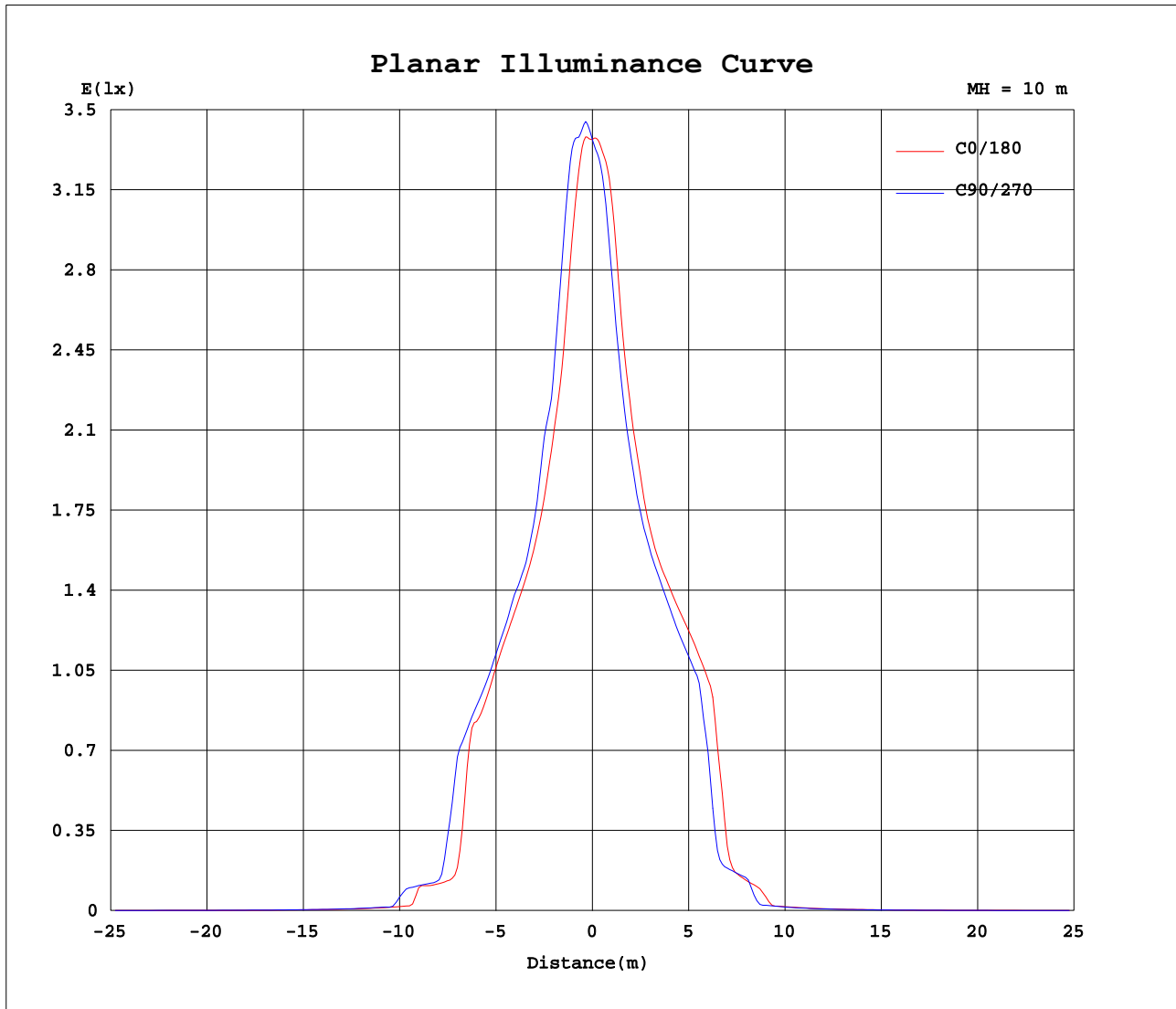
| AvgL | cd/m2 |
|------------------|-------|
| L_0~180 (65) av | 18 |
| L_0~180 (75) av | 15 |
| L_0~180 (85) av | 40 |
| L_90~270 (65) av | 17 |
| L_90~270 (75) av | 24 |
| L_90~270 (85) av | 27 |
| L_45 (65) av | 21 |
| L_45 (75) av | 15 |
| L_45 (85) av | 32 |

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature: 25.3DEG
Operators: Jason
Test Date: 2020-06-29

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
Test System: EVERFINE GO-2000_V1 SYSTEM V2.0.362
Humidity: 65.0%
Test Distance: 5.850m [K=1.7094]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature: 25.3DEG
Operators: Jason
Test Date: 2020-06-29

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
Test System: EVERFINE GO-2000_V1 SYSTEM V2.0.362
Humidity: 65.0%
Test Distance: 5.850m [K=1.7094]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

| | | |
|--|-----------------------------|------------------|
| Test:U:221.1V I:0.0979A P:11.18W PF:0.5167 Freq:49.99Hz Lamp Flux:448.767x1 lm | | |
| NAME: CAMPSBAY Double-830-45° | TYPE: Recessed Ground Light | WEIGHT: |
| SPEC.: 3000K | DIM.: ϕ 80mm*H138mm | SERIAL No.: |
| MFR.: NEKO LIGHTING AG | SUR.: ϕ 80mm | Shielding Angle: |

Table--1

UNIT: cd

| C (DEG) γ (DEG) | 0 | 5 | 10 | 15 | 20 | 25 | 30 | 35 | 40 | 45 | 50 | 55 | 60 | 65 | 70 | 75 | 80 | 85 | 90 |
|--------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 0 | 337 | 337 | 337 | 337 | 337 | 337 | 337 | 337 | 337 | 337 | 337 | 337 | 337 | 337 | 337 | 337 | 337 | 337 | 337 |
| 5 | 313 | 316 | 318 | 320 | 321 | 323 | 324 | 327 | 330 | 332 | 334 | 335 | 337 | 338 | 339 | 340 | 341 | 341 | 341 |
| 10 | 234 | 237 | 240 | 242 | 245 | 247 | 250 | 255 | 260 | 264 | 265 | 266 | 266 | 268 | 269 | 271 | 272 | 273 | 274 |
| 15 | 191 | 192 | 194 | 196 | 197 | 199 | 201 | 204 | 207 | 209 | 210 | 211 | 212 | 214 | 215 | 216 | 216 | 215 | 214 |
| 20 | 169 | 169 | 170 | 170 | 171 | 172 | 173 | 174 | 174 | 175 | 174 | 174 | 173 | 175 | 176 | 178 | 178 | 178 | 177 |
| 25 | 155 | 157 | 158 | 158 | 156 | 154 | 153 | 152 | 152 | 152 | 153 | 154 | 155 | 157 | 159 | 161 | 161 | 162 | 162 |
| 30 | 133 | 136 | 139 | 140 | 139 | 137 | 136 | 138 | 140 | 142 | 144 | 146 | 147 | 148 | 148 | 147 | 146 | 145 | 145 |
| 35 | 34.4 | 40.1 | 46.2 | 52.6 | 59.0 | 66.0 | 74.0 | 85.1 | 96.3 | 106 | 112 | 115 | 117 | 115 | 113 | 111 | 115 | 119 | 122 |
| 40 | 24.3 | 24.4 | 24.4 | 24.3 | 24.0 | 23.6 | 23.4 | 23.6 | 23.8 | 24.1 | 24.2 | 24.3 | 24.3 | 24.3 | 24.3 | 24.5 | 25.1 | 25.8 | 26.6 |
| 45 | 5.01 | 5.08 | 5.17 | 5.28 | 5.30 | 5.42 | 5.67 | 6.34 | 7.15 | 8.01 | 8.49 | 9.13 | 10.2 | 12.7 | 15.3 | 17.4 | 17.6 | 17.2 | 16.7 |
| 50 | 3.33 | 3.40 | 3.48 | 3.56 | 3.64 | 3.72 | 3.80 | 3.87 | 3.94 | 3.98 | 3.96 | 3.93 | 3.89 | 3.92 | 3.96 | 3.99 | 3.97 | 3.94 | 3.90 |
| 55 | 2.24 | 2.31 | 2.37 | 2.43 | 2.49 | 2.55 | 2.60 | 2.64 | 2.67 | 2.68 | 2.67 | 2.66 | 2.64 | 2.66 | 2.67 | 2.68 | 2.65 | 2.61 | 2.57 |
| 60 | 1.47 | 1.52 | 1.56 | 1.60 | 1.64 | 1.68 | 1.72 | 1.75 | 1.78 | 1.80 | 1.80 | 1.80 | 1.79 | 1.79 | 1.79 | 1.79 | 1.77 | 1.74 | 1.72 |
| 65 | 0.95 | 0.97 | 1.00 | 1.02 | 1.05 | 1.08 | 1.11 | 1.14 | 1.16 | 1.18 | 1.18 | 1.19 | 1.19 | 1.18 | 1.17 | 1.16 | 1.15 | 1.14 | 1.13 |
| 70 | 0.65 | 0.66 | 0.68 | 0.70 | 0.72 | 0.74 | 0.76 | 0.77 | 0.78 | 0.78 | 0.79 | 0.79 | 0.80 | 0.79 | 0.79 | 0.78 | 0.78 | 0.78 | 0.77 |
| 75 | 0.46 | 0.46 | 0.47 | 0.47 | 0.49 | 0.51 | 0.52 | 0.52 | 0.53 | 0.53 | 0.53 | 0.54 | 0.55 | 0.55 | 0.55 | 0.54 | 0.54 | 0.55 | 0.55 |
| 80 | 0.28 | 0.29 | 0.31 | 0.32 | 0.33 | 0.34 | 0.35 | 0.34 | 0.33 | 0.33 | 0.34 | 0.35 | 0.37 | 0.36 | 0.36 | 0.35 | 0.35 | 0.36 | 0.37 |
| 85 | 0.23 | 0.23 | 0.24 | 0.25 | 0.26 | 0.28 | 0.28 | 0.24 | 0.20 | 0.16 | 0.17 | 0.19 | 0.22 | 0.21 | 0.20 | 0.20 | 0.20 | 0.22 | 0.22 |
| 90 | 0.11 | 0.07 | 0.05 | 0.03 | 0.02 | 0.02 | 0.03 | 0.03 | 0.03 | 0.03 | 0.02 | 0.02 | 0.02 | 0.02 | 0.00 | 0.00 | 0.02 | 0.03 | 0.05 |
| 95 | 0.23 | 0.15 | 0.08 | 0.03 | 0.01 | 0.01 | 0.03 | 0.02 | 0.02 | 0.03 | 0.07 | 0.11 | 0.15 | 0.15 | 0.15 | 0.16 | 0.20 | 0.27 | 0.36 |
| 100 | 0.28 | 0.26 | 0.24 | 0.21 | 0.17 | 0.14 | 0.11 | 0.10 | 0.11 | 0.14 | 0.21 | 0.28 | 0.34 | 0.36 | 0.37 | 0.40 | 0.48 | 0.57 | 0.69 |
| 105 | 0.46 | 0.40 | 0.35 | 0.30 | 0.26 | 0.24 | 0.24 | 0.25 | 0.27 | 0.30 | 0.28 | 0.27 | 0.31 | 0.45 | 0.62 | 0.79 | 0.88 | 0.95 | 0.99 |
| 110 | 0.65 | 0.56 | 0.49 | 0.43 | 0.41 | 0.42 | 0.44 | 0.48 | 0.51 | 0.54 | 0.53 | 0.51 | 0.49 | 0.49 | 0.50 | 0.50 | 0.49 | 0.49 | 0.48 |
| 115 | 0.95 | 0.83 | 0.73 | 0.65 | 0.63 | 0.63 | 0.66 | 0.70 | 0.75 | 0.79 | 0.82 | 0.84 | 0.84 | 0.81 | 0.77 | 0.74 | 0.73 | 0.73 | 0.73 |
| 120 | 1.47 | 1.26 | 1.07 | 0.93 | 0.89 | 0.91 | 0.96 | 1.01 | 1.06 | 1.11 | 1.15 | 1.17 | 1.19 | 1.22 | 1.25 | 1.28 | 1.29 | 1.29 | 1.30 |
| 125 | 2.24 | 1.91 | 1.62 | 1.41 | 1.36 | 1.40 | 1.49 | 1.55 | 1.63 | 1.70 | 1.76 | 1.80 | 1.83 | 1.86 | 1.88 | 1.90 | 1.92 | 1.93 | 1.94 |
| 130 | 3.33 | 2.89 | 2.51 | 2.24 | 2.17 | 2.21 | 2.32 | 2.38 | 2.44 | 2.52 | 2.59 | 2.64 | 2.69 | 2.73 | 2.76 | 2.80 | 2.83 | 2.86 | 2.88 |
| 135 | 5.01 | 4.32 | 3.73 | 3.29 | 3.19 | 3.26 | 3.43 | 3.52 | 3.63 | 3.74 | 3.83 | 3.91 | 3.98 | 4.06 | 4.14 | 4.22 | 4.31 | 4.38 | 4.43 |
| 140 | 24.3 | 16.7 | 9.98 | 4.93 | 3.48 | 3.86 | 5.15 | 4.65 | 4.64 | 5.59 | 9.55 | 13.4 | 16.3 | 16.6 | 16.1 | 15.4 | 15.4 | 15.3 | 15.2 |
| 145 | 34.4 | 33.0 | 32.0 | 31.4 | 31.8 | 32.5 | 33.4 | 34.1 | 34.6 | 34.8 | 34.1 | 33.4 | 32.8 | 33.1 | 33.5 | 33.9 | 34.0 | 33.9 | 33.7 |
| 150 | 133 | 92.8 | 57.5 | 31.3 | 24.2 | 26.9 | 34.4 | 30.7 | 30.9 | 38.7 | 69.9 | 100 | 125 | 133 | 136 | 135 | 133 | 131 | 129 |
| 155 | 155 | 156 | 158 | 160 | 163 | 164 | 166 | 168 | 169 | 169 | 165 | 161 | 157 | 156 | 156 | 157 | 157 | 157 | 158 |
| 160 | 169 | 172 | 174 | 176 | 177 | 178 | 179 | 183 | 186 | 186 | 179 | 172 | 166 | 165 | 165 | 166 | 167 | 169 | 170 |
| 165 | 191 | 192 | 194 | 195 | 196 | 196 | 197 | 199 | 200 | 199 | 191 | 184 | 178 | 179 | 181 | 183 | 184 | 185 | 185 |
| 170 | 234 | 226 | 219 | 215 | 214 | 215 | 217 | 219 | 220 | 220 | 218 | 215 | 214 | 215 | 217 | 219 | 220 | 221 | 222 |
| 175 | 313 | 292 | 273 | 259 | 256 | 258 | 263 | 263 | 264 | 266 | 275 | 283 | 289 | 291 | 292 | 292 | 293 | 294 | 295 |
| 180 | 337 | 337 | 337 | 337 | 337 | 337 | 337 | 337 | 337 | 337 | 337 | 337 | 337 | 337 | 337 | 337 | 337 | 337 | 337 |

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature: 25.3DEG
Operators: Jason
Test Date: 2020-06-29

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System: EVERFINE GO-2000_V1 SYSTEM V2.0.362
Humidity: 65.0%
Test Distance: 5.850m [K=1.7094]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

| | | |
|--|-----------------------------|------------------|
| Test:U:221.1V I:0.0979A P:11.18W PF:0.5167 Freq:49.99Hz Lamp Flux:448.767x1 lm | | |
| NAME: CAMPSBAY Double-830-45° | TYPE: Recessed Ground Light | WEIGHT: |
| SPEC.: 3000K | DIM.: ϕ 80mm*H138mm | SERIAL No.: |
| MFR.: NEKO LIGHTING AG | SUR.: ϕ 80mm | Shielding Angle: |

Table--2

UNIT: cd

| C (DEG) γ (DEG) | 95 | 100 | 105 | 110 | 115 | 120 | 125 | 130 | 135 | 140 | 145 | 150 | 155 | 160 | 165 | 170 | 175 | 180 | 185 |
|---------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 0 | 337 | 337 | 337 | 337 | 337 | 337 | 337 | 337 | 337 | 337 | 337 | 337 | 337 | 337 | 337 | 337 | 337 | 337 | 337 |
| 5 | 342 | 343 | 344 | 342 | 341 | 342 | 351 | 364 | 378 | 387 | 394 | 399 | 408 | 413 | 408 | 378 | 348 | 324 | 318 |
| 10 | 277 | 280 | 282 | 280 | 279 | 281 | 295 | 315 | 339 | 356 | 371 | 383 | 405 | 417 | 412 | 353 | 294 | 247 | 236 |
| 15 | 214 | 214 | 214 | 211 | 210 | 212 | 228 | 248 | 270 | 278 | 284 | 289 | 313 | 331 | 335 | 288 | 239 | 200 | 191 |
| 20 | 177 | 176 | 176 | 174 | 174 | 176 | 188 | 204 | 221 | 230 | 235 | 239 | 251 | 259 | 258 | 230 | 202 | 179 | 174 |
| 25 | 162 | 162 | 162 | 160 | 160 | 162 | 173 | 186 | 201 | 207 | 210 | 212 | 219 | 223 | 222 | 204 | 187 | 173 | 169 |
| 30 | 145 | 147 | 148 | 148 | 149 | 153 | 164 | 177 | 192 | 198 | 201 | 202 | 209 | 212 | 211 | 194 | 177 | 164 | 160 |
| 35 | 120 | 117 | 115 | 118 | 124 | 131 | 144 | 159 | 175 | 181 | 184 | 186 | 200 | 207 | 200 | 146 | 93.7 | 51.3 | 39.5 |
| 40 | 27.6 | 28.6 | 29.4 | 28.8 | 28.7 | 29.8 | 33.7 | 40.7 | 51.5 | 67.8 | 85.6 | 103 | 126 | 142 | 144 | 102 | 59.7 | 25.1 | 18.5 |
| 45 | 17.0 | 17.3 | 17.5 | 16.0 | 14.9 | 14.9 | 19.4 | 25.4 | 31.6 | 32.9 | 32.7 | 32.0 | 34.7 | 36.2 | 34.7 | 23.9 | 13.2 | 4.86 | 3.28 |
| 50 | 3.87 | 3.85 | 3.83 | 3.72 | 3.67 | 3.74 | 4.20 | 4.82 | 5.50 | 5.78 | 5.96 | 6.11 | 6.73 | 7.18 | 7.21 | 5.85 | 4.46 | 3.32 | 3.06 |
| 55 | 2.55 | 2.53 | 2.52 | 2.46 | 2.44 | 2.48 | 2.76 | 3.13 | 3.55 | 3.75 | 3.89 | 4.00 | 4.29 | 4.46 | 4.41 | 3.64 | 2.87 | 2.25 | 2.10 |
| 60 | 1.70 | 1.69 | 1.68 | 1.63 | 1.62 | 1.65 | 1.83 | 2.08 | 2.36 | 2.50 | 2.60 | 2.67 | 2.86 | 2.97 | 2.93 | 2.41 | 1.89 | 1.47 | 1.36 |
| 65 | 1.11 | 1.10 | 1.08 | 1.06 | 1.05 | 1.08 | 1.19 | 1.35 | 1.52 | 1.62 | 1.69 | 1.75 | 1.87 | 1.95 | 1.93 | 1.59 | 1.25 | 0.97 | 0.90 |
| 70 | 0.76 | 0.75 | 0.74 | 0.73 | 0.73 | 0.75 | 0.82 | 0.91 | 1.01 | 1.07 | 1.12 | 1.15 | 1.23 | 1.28 | 1.26 | 1.07 | 0.87 | 0.70 | 0.66 |
| 75 | 0.54 | 0.53 | 0.53 | 0.52 | 0.52 | 0.53 | 0.59 | 0.65 | 0.73 | 0.77 | 0.81 | 0.83 | 0.88 | 0.90 | 0.89 | 0.75 | 0.62 | 0.53 | 0.54 |
| 80 | 0.36 | 0.36 | 0.35 | 0.35 | 0.35 | 0.37 | 0.41 | 0.46 | 0.51 | 0.55 | 0.58 | 0.60 | 0.63 | 0.64 | 0.64 | 0.58 | 0.53 | 0.50 | 0.55 |
| 85 | 0.22 | 0.21 | 0.21 | 0.21 | 0.22 | 0.23 | 0.26 | 0.29 | 0.33 | 0.37 | 0.40 | 0.43 | 0.45 | 0.47 | 0.50 | 0.54 | 0.59 | 0.65 | 0.72 |
| 90 | 0.09 | 0.14 | 0.00 | 0.00 | 0.20 | 0.20 | 0.20 | 0.21 | 0.23 | 0.29 | 0.36 | 0.42 | 0.48 | 0.52 | 0.54 | 0.49 | 0.43 | 0.38 | 0.43 |
| 95 | 0.50 | 0.65 | 0.80 | 0.92 | 1.02 | 1.07 | 1.01 | 0.94 | 0.88 | 0.96 | 1.05 | 1.13 | 1.08 | 0.99 | 0.89 | 0.80 | 0.72 | 0.65 | 0.59 |
| 100 | 0.85 | 1.00 | 1.13 | 1.19 | 1.20 | 1.15 | 0.97 | 0.79 | 0.64 | 0.72 | 0.84 | 0.94 | 0.90 | 0.81 | 0.70 | 0.62 | 0.55 | 0.50 | 0.53 |
| 105 | 1.05 | 1.08 | 1.05 | 0.84 | 0.60 | 0.39 | 0.32 | 0.31 | 0.36 | 0.51 | 0.67 | 0.80 | 0.78 | 0.73 | 0.65 | 0.58 | 0.54 | 0.53 | 0.62 |
| 110 | 0.48 | 0.49 | 0.50 | 0.51 | 0.51 | 0.52 | 0.56 | 0.61 | 0.65 | 0.67 | 0.68 | 0.69 | 0.68 | 0.67 | 0.66 | 0.65 | 0.66 | 0.70 | 0.87 |
| 115 | 0.73 | 0.74 | 0.77 | 0.85 | 0.94 | 1.02 | 1.05 | 1.06 | 1.05 | 1.01 | 0.97 | 0.93 | 0.91 | 0.90 | 0.90 | 0.88 | 0.90 | 0.97 | 1.25 |
| 120 | 1.32 | 1.34 | 1.35 | 1.36 | 1.37 | 1.37 | 1.39 | 1.39 | 1.40 | 1.39 | 1.38 | 1.37 | 1.36 | 1.35 | 1.35 | 1.33 | 1.36 | 1.47 | 1.89 |
| 125 | 1.95 | 1.95 | 1.96 | 1.97 | 1.99 | 2.00 | 2.01 | 2.02 | 2.03 | 2.03 | 2.03 | 2.04 | 2.06 | 2.08 | 2.11 | 2.07 | 2.10 | 2.25 | 2.87 |
| 130 | 2.89 | 2.89 | 2.89 | 2.91 | 2.92 | 2.92 | 2.92 | 2.91 | 2.90 | 2.93 | 2.96 | 2.99 | 3.02 | 3.05 | 3.09 | 3.02 | 3.06 | 3.32 | 4.46 |
| 135 | 4.42 | 4.40 | 4.36 | 4.36 | 4.35 | 4.34 | 4.28 | 4.23 | 4.20 | 4.24 | 4.30 | 4.38 | 4.42 | 4.46 | 4.52 | 3.46 | 3.28 | 4.86 | 13.2 |
| 140 | 14.5 | 13.7 | 13.0 | 12.9 | 13.0 | 13.4 | 13.9 | 14.7 | 15.7 | 17.1 | 18.5 | 19.9 | 20.9 | 21.8 | 22.5 | 18.8 | 18.5 | 25.1 | 59.7 |
| 145 | 33.3 | 32.8 | 32.2 | 31.5 | 31.0 | 30.5 | 30.3 | 30.3 | 30.5 | 31.0 | 31.7 | 32.7 | 33.3 | 34.5 | 36.5 | 35.7 | 39.5 | 51.3 | 93.7 |
| 150 | 132 | 136 | 140 | 143 | 145 | 147 | 150 | 154 | 157 | 159 | 161 | 162 | 161 | 161 | 160 | 159 | 160 | 164 | 177 |
| 155 | 160 | 162 | 164 | 164 | 164 | 164 | 166 | 168 | 169 | 170 | 170 | 170 | 170 | 169 | 170 | 169 | 169 | 173 | 187 |
| 160 | 172 | 173 | 174 | 173 | 172 | 171 | 172 | 173 | 174 | 174 | 174 | 174 | 174 | 175 | 175 | 173 | 174 | 179 | 202 |
| 165 | 186 | 187 | 188 | 188 | 187 | 187 | 188 | 189 | 189 | 190 | 191 | 192 | 192 | 193 | 194 | 191 | 191 | 200 | 239 |
| 170 | 222 | 223 | 223 | 224 | 225 | 226 | 227 | 227 | 227 | 229 | 232 | 235 | 236 | 237 | 239 | 235 | 236 | 247 | 294 |
| 175 | 295 | 295 | 296 | 297 | 299 | 300 | 302 | 303 | 305 | 308 | 311 | 314 | 316 | 317 | 318 | 317 | 318 | 324 | 348 |
| 180 | 337 | 337 | 337 | 337 | 337 | 337 | 337 | 337 | 337 | 337 | 337 | 337 | 337 | 337 | 337 | 337 | 337 | 337 | 337 |

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature: 25.3DEG
Operators: Jason
Test Date: 2020-06-29

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
Test System: EVERFINE GO-2000_V1 SYSTEM V2.0.362
Humidity: 65.0%
Test Distance: 5.850m [K=1.7094]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

| | | |
|--|-----------------------------|------------------|
| Test:U:221.1V I:0.0979A P:11.18W PF:0.5167 Freq:49.99Hz Lamp Flux:448.767x1 lm | | |
| NAME: CAMPSBAY Double-830-45° | TYPE: Recessed Ground Light | WEIGHT: |
| SPEC.: 3000K | DIM.: ϕ 80mm*H138mm | SERIAL No.: |
| MFR.: NEKO LIGHTING AG | SUR.: ϕ 80mm | Shielding Angle: |

Table--3

UNIT: cd

| C (DEG) γ (DEG) | 190 | 195 | 200 | 205 | 210 | 215 | 220 | 225 | 230 | 235 | 240 | 245 | 250 | 255 | 260 | 265 | 270 | 275 | 280 |
|--------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 0 | 337 | 337 | 337 | 337 | 337 | 337 | 337 | 337 | 337 | 337 | 337 | 337 | 337 | 337 | 337 | 337 | 337 | 337 | 337 |
| 5 | 317 | 318 | 317 | 316 | 314 | 311 | 308 | 305 | 303 | 302 | 300 | 299 | 297 | 296 | 295 | 295 | 295 | 294 | 293 |
| 10 | 235 | 239 | 237 | 236 | 235 | 232 | 229 | 227 | 227 | 227 | 226 | 225 | 224 | 223 | 223 | 222 | 222 | 221 | 220 |
| 15 | 191 | 194 | 193 | 192 | 192 | 191 | 190 | 189 | 189 | 188 | 187 | 187 | 188 | 188 | 187 | 186 | 185 | 185 | 184 |
| 20 | 173 | 175 | 175 | 174 | 174 | 174 | 174 | 174 | 173 | 172 | 171 | 172 | 173 | 174 | 173 | 172 | 170 | 169 | 167 |
| 25 | 169 | 170 | 169 | 170 | 170 | 170 | 170 | 169 | 168 | 166 | 164 | 164 | 164 | 164 | 162 | 160 | 158 | 157 | 157 |
| 30 | 159 | 160 | 161 | 161 | 162 | 161 | 159 | 157 | 154 | 150 | 147 | 145 | 143 | 140 | 136 | 132 | 129 | 131 | 133 |
| 35 | 35.7 | 36.5 | 34.5 | 33.3 | 32.7 | 31.7 | 31.0 | 30.5 | 30.3 | 30.3 | 30.5 | 31.0 | 31.5 | 32.2 | 32.8 | 33.3 | 33.7 | 33.9 | 34.0 |
| 40 | 18.8 | 22.5 | 21.8 | 20.9 | 19.9 | 18.5 | 17.1 | 15.7 | 14.7 | 13.9 | 13.4 | 13.0 | 12.9 | 13.0 | 13.7 | 14.5 | 15.2 | 15.3 | 15.4 |
| 45 | 3.46 | 4.52 | 4.46 | 4.42 | 4.38 | 4.30 | 4.24 | 4.20 | 4.23 | 4.28 | 4.34 | 4.35 | 4.36 | 4.36 | 4.40 | 4.42 | 4.43 | 4.38 | 4.31 |
| 50 | 3.02 | 3.09 | 3.05 | 3.02 | 2.99 | 2.96 | 2.93 | 2.90 | 2.91 | 2.92 | 2.92 | 2.92 | 2.91 | 2.89 | 2.89 | 2.89 | 2.88 | 2.86 | 2.83 |
| 55 | 2.07 | 2.11 | 2.08 | 2.06 | 2.04 | 2.03 | 2.03 | 2.03 | 2.02 | 2.01 | 2.00 | 1.99 | 1.97 | 1.96 | 1.95 | 1.95 | 1.94 | 1.93 | 1.92 |
| 60 | 1.33 | 1.35 | 1.35 | 1.36 | 1.37 | 1.38 | 1.39 | 1.40 | 1.39 | 1.39 | 1.37 | 1.37 | 1.36 | 1.35 | 1.34 | 1.32 | 1.30 | 1.29 | 1.29 |
| 65 | 0.88 | 0.90 | 0.90 | 0.91 | 0.93 | 0.97 | 1.01 | 1.05 | 1.06 | 1.05 | 1.02 | 0.94 | 0.85 | 0.77 | 0.74 | 0.73 | 0.73 | 0.73 | 0.73 |
| 70 | 0.65 | 0.66 | 0.67 | 0.68 | 0.69 | 0.68 | 0.67 | 0.65 | 0.61 | 0.56 | 0.52 | 0.51 | 0.51 | 0.50 | 0.49 | 0.48 | 0.48 | 0.49 | 0.49 |
| 75 | 0.58 | 0.65 | 0.73 | 0.78 | 0.80 | 0.67 | 0.51 | 0.36 | 0.31 | 0.32 | 0.39 | 0.60 | 0.84 | 1.05 | 1.08 | 1.05 | 0.99 | 0.95 | 0.88 |
| 80 | 0.62 | 0.70 | 0.81 | 0.90 | 0.94 | 0.84 | 0.72 | 0.64 | 0.79 | 0.97 | 1.15 | 1.20 | 1.19 | 1.13 | 1.00 | 0.85 | 0.69 | 0.57 | 0.48 |
| 85 | 0.80 | 0.89 | 0.99 | 1.08 | 1.13 | 1.05 | 0.96 | 0.88 | 0.94 | 1.01 | 1.07 | 1.02 | 0.92 | 0.80 | 0.65 | 0.50 | 0.36 | 0.27 | 0.20 |
| 90 | 0.50 | 0.56 | 0.52 | 0.45 | 0.37 | 0.31 | 0.26 | 0.20 | 0.16 | 0.12 | 0.09 | 0.07 | 0.05 | 0.04 | 0.03 | 0.04 | 0.04 | 0.03 | 0.03 |
| 95 | 0.54 | 0.50 | 0.47 | 0.45 | 0.43 | 0.40 | 0.37 | 0.33 | 0.29 | 0.26 | 0.23 | 0.22 | 0.21 | 0.21 | 0.21 | 0.22 | 0.22 | 0.22 | 0.20 |
| 100 | 0.58 | 0.64 | 0.64 | 0.63 | 0.60 | 0.58 | 0.55 | 0.51 | 0.46 | 0.41 | 0.37 | 0.35 | 0.35 | 0.35 | 0.36 | 0.36 | 0.37 | 0.36 | 0.35 |
| 105 | 0.75 | 0.89 | 0.90 | 0.88 | 0.83 | 0.81 | 0.77 | 0.73 | 0.65 | 0.59 | 0.53 | 0.52 | 0.52 | 0.53 | 0.53 | 0.54 | 0.55 | 0.55 | 0.54 |
| 110 | 1.07 | 1.26 | 1.28 | 1.23 | 1.15 | 1.12 | 1.07 | 1.01 | 0.91 | 0.82 | 0.75 | 0.73 | 0.73 | 0.74 | 0.75 | 0.76 | 0.77 | 0.78 | 0.78 |
| 115 | 1.59 | 1.93 | 1.95 | 1.87 | 1.75 | 1.69 | 1.62 | 1.52 | 1.35 | 1.19 | 1.08 | 1.05 | 1.06 | 1.08 | 1.10 | 1.11 | 1.13 | 1.14 | 1.15 |
| 120 | 2.41 | 2.93 | 2.97 | 2.86 | 2.67 | 2.60 | 2.50 | 2.36 | 2.08 | 1.83 | 1.65 | 1.62 | 1.63 | 1.68 | 1.69 | 1.70 | 1.72 | 1.74 | 1.77 |
| 125 | 3.64 | 4.41 | 4.46 | 4.29 | 4.00 | 3.89 | 3.75 | 3.55 | 3.13 | 2.76 | 2.48 | 2.44 | 2.46 | 2.52 | 2.53 | 2.55 | 2.57 | 2.61 | 2.65 |
| 130 | 5.85 | 7.21 | 7.18 | 6.73 | 6.11 | 5.96 | 5.78 | 5.50 | 4.82 | 4.20 | 3.74 | 3.67 | 3.72 | 3.83 | 3.85 | 3.87 | 3.90 | 3.94 | 3.97 |
| 135 | 23.9 | 34.7 | 36.2 | 34.7 | 32.0 | 32.7 | 32.9 | 31.6 | 25.4 | 19.4 | 14.9 | 14.9 | 16.0 | 17.5 | 17.3 | 17.0 | 16.7 | 17.2 | 17.6 |
| 140 | 102 | 144 | 142 | 126 | 103 | 85.6 | 67.8 | 51.5 | 40.7 | 33.7 | 29.8 | 28.7 | 28.8 | 29.4 | 28.6 | 27.6 | 26.6 | 25.8 | 25.1 |
| 145 | 146 | 200 | 207 | 200 | 186 | 184 | 181 | 175 | 159 | 144 | 131 | 124 | 118 | 115 | 117 | 120 | 122 | 119 | 115 |
| 150 | 194 | 211 | 212 | 209 | 202 | 201 | 198 | 192 | 177 | 164 | 153 | 149 | 148 | 148 | 147 | 145 | 145 | 145 | 146 |
| 155 | 204 | 222 | 223 | 219 | 212 | 210 | 207 | 201 | 186 | 173 | 162 | 160 | 160 | 162 | 162 | 162 | 162 | 162 | 161 |
| 160 | 230 | 258 | 259 | 251 | 239 | 235 | 230 | 221 | 204 | 188 | 176 | 174 | 174 | 176 | 176 | 177 | 177 | 178 | 178 |
| 165 | 288 | 335 | 331 | 313 | 289 | 284 | 278 | 270 | 248 | 228 | 212 | 210 | 211 | 214 | 214 | 214 | 214 | 215 | 216 |
| 170 | 353 | 412 | 417 | 405 | 383 | 371 | 356 | 339 | 315 | 295 | 281 | 279 | 280 | 282 | 280 | 277 | 274 | 273 | 272 |
| 175 | 378 | 408 | 413 | 408 | 399 | 394 | 387 | 378 | 364 | 351 | 342 | 341 | 342 | 344 | 343 | 342 | 341 | 341 | 341 |
| 180 | 337 | 337 | 337 | 337 | 337 | 337 | 337 | 337 | 337 | 337 | 337 | 337 | 337 | 337 | 337 | 337 | 337 | 337 | 337 |

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature: 25.3DEG
Operators: Jason
Test Date: 2020-06-29

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System: EVERFINE GO-2000_V1 SYSTEM V2.0.362
Humidity: 65.0%
Test Distance: 5.850m [K=1.7094]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

| | | |
|--|-----------------------------|------------------|
| Test:U:221.1V I:0.0979A P:11.18W PF:0.5167 Freq:49.99Hz Lamp Flux:448.767x1 lm | | |
| NAME: CAMPSBAY Double-830-45° | TYPE: Recessed Ground Light | WEIGHT: |
| SPEC.: 3000K | DIM.: ϕ 80mm*H138mm | SERIAL No.: |
| MFR.: NEKO LIGHTING AG | SUR.: ϕ 80mm | Shielding Angle: |

Table--4

UNIT: cd

| C (DEG) γ (DEG) | 285 | 290 | 295 | 300 | 305 | 310 | 315 | 320 | 325 | 330 | 335 | 340 | 345 | 350 | 355 | | | | |
|--------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--|--|--|--|
| 0 | 337 | 337 | 337 | 337 | 337 | 337 | 337 | 337 | 337 | 337 | 337 | 337 | 337 | 337 | 337 | | | | |
| 5 | 292 | 292 | 291 | 289 | 283 | 275 | 266 | 264 | 263 | 263 | 258 | 256 | 259 | 273 | 292 | | | | |
| 10 | 219 | 217 | 215 | 214 | 215 | 218 | 220 | 220 | 219 | 217 | 215 | 214 | 215 | 219 | 226 | | | | |
| 15 | 183 | 181 | 179 | 178 | 184 | 191 | 199 | 200 | 199 | 197 | 196 | 196 | 195 | 194 | 192 | | | | |
| 20 | 166 | 165 | 165 | 166 | 172 | 179 | 186 | 186 | 183 | 179 | 178 | 177 | 176 | 174 | 172 | | | | |
| 25 | 157 | 156 | 156 | 157 | 161 | 165 | 169 | 169 | 168 | 166 | 164 | 163 | 160 | 158 | 156 | | | | |
| 30 | 135 | 136 | 133 | 125 | 100 | 69.9 | 38.7 | 30.9 | 30.7 | 34.4 | 26.9 | 24.2 | 31.3 | 57.5 | 92.8 | | | | |
| 35 | 33.9 | 33.5 | 33.1 | 32.8 | 33.4 | 34.1 | 34.8 | 34.6 | 34.1 | 33.4 | 32.5 | 31.8 | 31.4 | 32.0 | 33.0 | | | | |
| 40 | 15.4 | 16.1 | 16.6 | 16.3 | 13.4 | 9.55 | 5.59 | 4.64 | 4.65 | 5.15 | 3.86 | 3.48 | 4.93 | 9.98 | 16.7 | | | | |
| 45 | 4.22 | 4.14 | 4.06 | 3.98 | 3.91 | 3.83 | 3.74 | 3.63 | 3.52 | 3.43 | 3.26 | 3.19 | 3.29 | 3.73 | 4.32 | | | | |
| 50 | 2.80 | 2.76 | 2.73 | 2.69 | 2.64 | 2.59 | 2.52 | 2.44 | 2.38 | 2.32 | 2.21 | 2.17 | 2.24 | 2.51 | 2.89 | | | | |
| 55 | 1.90 | 1.88 | 1.86 | 1.83 | 1.80 | 1.76 | 1.70 | 1.63 | 1.55 | 1.49 | 1.40 | 1.36 | 1.41 | 1.62 | 1.91 | | | | |
| 60 | 1.28 | 1.25 | 1.22 | 1.19 | 1.17 | 1.15 | 1.11 | 1.06 | 1.01 | 0.96 | 0.91 | 0.89 | 0.93 | 1.07 | 1.26 | | | | |
| 65 | 0.74 | 0.77 | 0.81 | 0.84 | 0.84 | 0.82 | 0.79 | 0.75 | 0.70 | 0.66 | 0.63 | 0.63 | 0.65 | 0.73 | 0.83 | | | | |
| 70 | 0.50 | 0.50 | 0.49 | 0.49 | 0.51 | 0.53 | 0.54 | 0.51 | 0.48 | 0.44 | 0.42 | 0.41 | 0.43 | 0.49 | 0.56 | | | | |
| 75 | 0.79 | 0.62 | 0.45 | 0.31 | 0.27 | 0.28 | 0.30 | 0.27 | 0.25 | 0.24 | 0.24 | 0.26 | 0.30 | 0.35 | 0.40 | | | | |
| 80 | 0.40 | 0.37 | 0.36 | 0.34 | 0.28 | 0.21 | 0.14 | 0.11 | 0.10 | 0.11 | 0.14 | 0.17 | 0.21 | 0.24 | 0.26 | | | | |
| 85 | 0.16 | 0.15 | 0.15 | 0.15 | 0.11 | 0.07 | 0.03 | 0.02 | 0.02 | 0.03 | 0.01 | 0.01 | 0.03 | 0.08 | 0.15 | | | | |
| 90 | 0.03 | 0.05 | 0.07 | 0.08 | 0.06 | 0.05 | 0.05 | 0.11 | 0.17 | 0.23 | 0.24 | 0.22 | 0.20 | 0.18 | 0.14 | | | | |
| 95 | 0.20 | 0.20 | 0.21 | 0.22 | 0.19 | 0.17 | 0.16 | 0.20 | 0.24 | 0.28 | 0.28 | 0.26 | 0.25 | 0.24 | 0.23 | | | | |
| 100 | 0.35 | 0.36 | 0.36 | 0.37 | 0.35 | 0.34 | 0.33 | 0.33 | 0.34 | 0.35 | 0.34 | 0.33 | 0.32 | 0.31 | 0.29 | | | | |
| 105 | 0.54 | 0.55 | 0.55 | 0.55 | 0.54 | 0.53 | 0.53 | 0.53 | 0.52 | 0.52 | 0.51 | 0.49 | 0.47 | 0.47 | 0.46 | | | | |
| 110 | 0.78 | 0.79 | 0.79 | 0.80 | 0.79 | 0.79 | 0.78 | 0.78 | 0.77 | 0.76 | 0.74 | 0.72 | 0.70 | 0.68 | 0.66 | | | | |
| 115 | 1.16 | 1.17 | 1.18 | 1.19 | 1.19 | 1.18 | 1.18 | 1.16 | 1.14 | 1.11 | 1.08 | 1.05 | 1.02 | 1.00 | 0.97 | | | | |
| 120 | 1.79 | 1.79 | 1.79 | 1.79 | 1.80 | 1.80 | 1.80 | 1.78 | 1.75 | 1.72 | 1.68 | 1.64 | 1.60 | 1.56 | 1.52 | | | | |
| 125 | 2.68 | 2.67 | 2.66 | 2.64 | 2.66 | 2.67 | 2.68 | 2.67 | 2.64 | 2.60 | 2.55 | 2.49 | 2.43 | 2.37 | 2.31 | | | | |
| 130 | 3.99 | 3.96 | 3.92 | 3.89 | 3.93 | 3.96 | 3.98 | 3.94 | 3.87 | 3.80 | 3.72 | 3.64 | 3.56 | 3.48 | 3.40 | | | | |
| 135 | 17.4 | 15.3 | 12.7 | 10.2 | 9.13 | 8.49 | 8.01 | 7.15 | 6.34 | 5.67 | 5.42 | 5.30 | 5.27 | 5.17 | 5.08 | | | | |
| 140 | 24.5 | 24.3 | 24.3 | 24.3 | 24.3 | 24.2 | 24.1 | 23.8 | 23.6 | 23.4 | 23.6 | 24.0 | 24.3 | 24.4 | 24.4 | | | | |
| 145 | 111 | 113 | 115 | 117 | 115 | 112 | 106 | 96.3 | 85.1 | 74.0 | 66.0 | 59.0 | 52.6 | 46.2 | 40.1 | | | | |
| 150 | 147 | 148 | 148 | 147 | 146 | 144 | 142 | 140 | 138 | 136 | 137 | 139 | 140 | 139 | 136 | | | | |
| 155 | 161 | 159 | 157 | 155 | 154 | 153 | 152 | 152 | 152 | 153 | 154 | 156 | 158 | 158 | 157 | | | | |
| 160 | 178 | 176 | 175 | 173 | 174 | 174 | 175 | 174 | 174 | 173 | 172 | 171 | 170 | 170 | 169 | | | | |
| 165 | 216 | 215 | 214 | 212 | 211 | 210 | 209 | 207 | 204 | 201 | 199 | 197 | 196 | 194 | 192 | | | | |
| 170 | 271 | 269 | 268 | 266 | 266 | 265 | 264 | 260 | 255 | 250 | 247 | 245 | 242 | 240 | 237 | | | | |
| 175 | 340 | 339 | 338 | 337 | 335 | 334 | 332 | 330 | 327 | 324 | 323 | 321 | 320 | 318 | 316 | | | | |
| 180 | 337 | 337 | 337 | 337 | 337 | 337 | 337 | 337 | 337 | 337 | 337 | 337 | 337 | 337 | 337 | | | | |

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature: 25.3DEG
Operators: Jason
Test Date: 2020-06-29

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System: EVERFINE GO-2000_V1 SYSTEM V2.0.362
Humidity: 65.0%
Test Distance: 5.850m [K=1.7094]
Remarks: