

LED Track Light Series CAMPSBAY Single-830-45°



Light Output Ratio:	100.0%	
Luminaire Power:	6.215 W	
SHR Nominal:	0.00	Calculated using the TM5
SHR Maximum:	1.00	fine grid method.

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Jason
Test Date: 2020-06-29

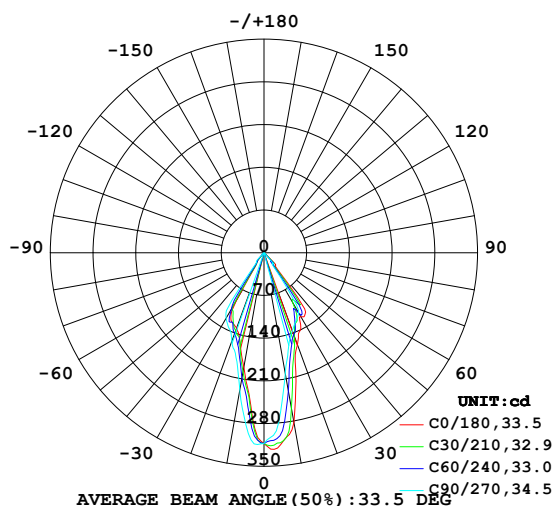
γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity: 58%
Test Distance: 5.850m [K=1.0000]
Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

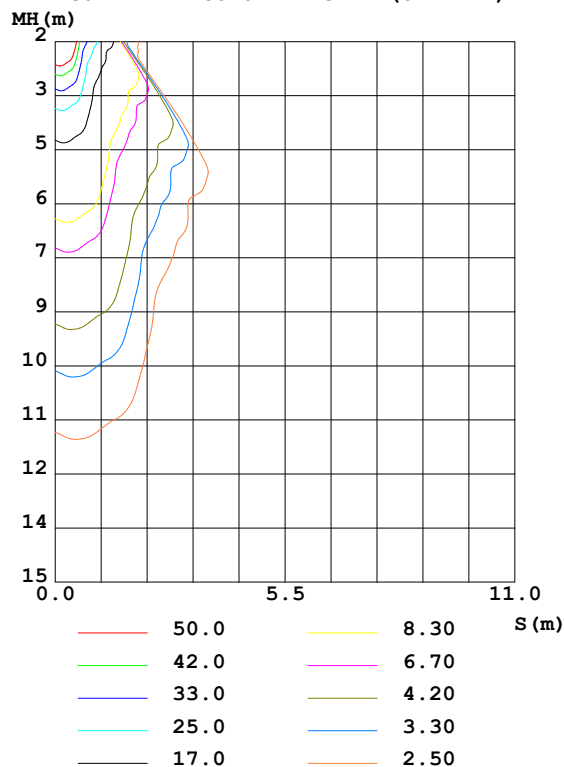
Test:U:221.1V I:0.0562A P:6.215W PF:0.5002 Freq:49.99Hz Lamp Flux:180.835x1 lm		
NAME: CAMPSBAY Single-830-45°	TYPE:Track Light Series	
SPEC.:3000K	DIM.: φ80mm*H90mm	
MFR.: NEKO LIGHTING AG		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 29.10 lm/W			
MODEL	CITIZEN-3000K	I _{max} (cd)	328.2	S/MH (C0/180)	0.45
NOMINAL POWER (W)	6	LOR (%)	100.0	S/MH (C90/270)	0.55
RATED VOLTAGE (V)	220	TOTAL FLUX (lm)	180.83	η UP, DN (C0-180)	0.0, 48.1
NOMINAL FLUX (lm)	180.835	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 51.9
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	0.00
TEST VOLTAGE (V)	220	η down (%)	100.0	CIBSE SHR MAX	1.00

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



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ZONAL FLUX DIAGRAM

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γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	282.4	246.1	201.5	187.5	190.5	202.2	228.6	272.9	0- 10	25.27	25.27	14,14
20	160.5	144.6	136.2	130.3	131.7	140.4	154.1	170.4	10- 20	49.14	74.42	41.2,41.2
30	121.3	99.31	113.3	94.59	90.19	110.1	124.2	136.8	20- 30	59.08	133.5	73.8,73.8
40	29.60	16.87	24.44	9.814	8.350	16.82	19.43	25.15	30- 40	36.77	170.3	94.2,94.2
50	4.540	3.480	2.703	2.451	2.402	2.677	3.154	3.764	40- 50	7.056	177.3	98.1,98.1
60	1.924	1.559	1.186	1.067	1.086	1.193	1.373	1.673	50- 60	1.934	179.3	99.1,99.1
70	0.8104	0.6622	0.5607	0.5214	0.5569	0.6108	0.6437	0.7774	60- 70	0.9481	180.2	99.6,99.6
80	0.3537	0.2735	0.2473	0.2151	0.2247	0.2696	0.2953	0.3710	70- 80	0.4763	180.7	99.9,99.9
90	0.0904	0.0261	0.0243	0.0244	0.0189	0.0196	0.0176	0.0333	80- 90	0.1585	180.8	100,100
100									90-100			
110									100-110			
120									110-120			
130									120-130			
140									130-140			
150									140-150			
160									150-160			
170									160-170			
180									170-180			
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 175.49 lm

%lum = 97.0%

%lamp = 97.0%

Conical surface Flux(120deg): 179.25 lm

%lum = 99.1%

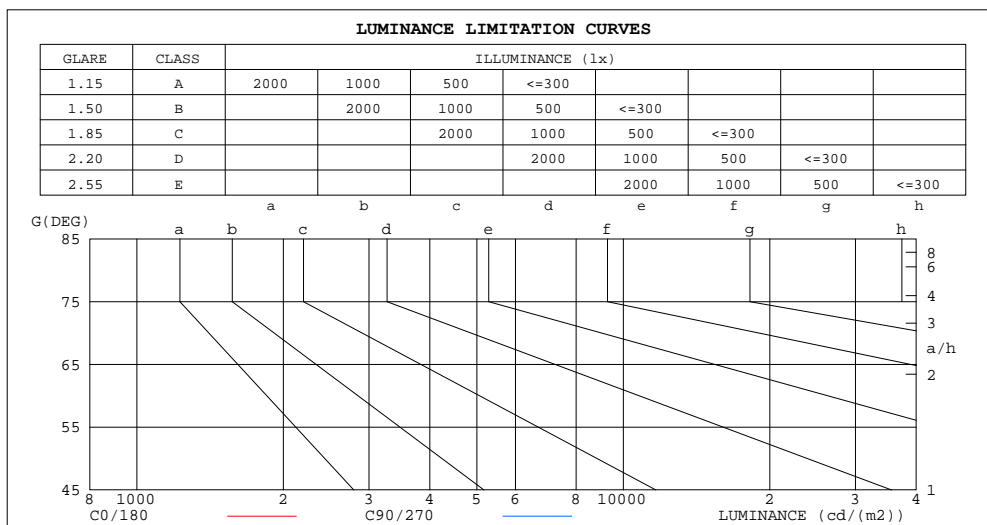
%lamp = 99.1%

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Humidity:58%
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Remarks:

LUMINANCE LIMITATION CURVES

Test:U:221.1V I:0.0562A P:6.215W PF:0.5002 Freq:49.99Hz Lamp Flux:180.835x1 lm		
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SPEC.:3000K	DIM.: φ80mm*H90mm	
MFR.: NEKO LIGHTING AG		



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	6	4
80	5	3
75	5	4
70	6	4
65	7	4
60	9	6
55	12	7
50	17	10
45	88	13

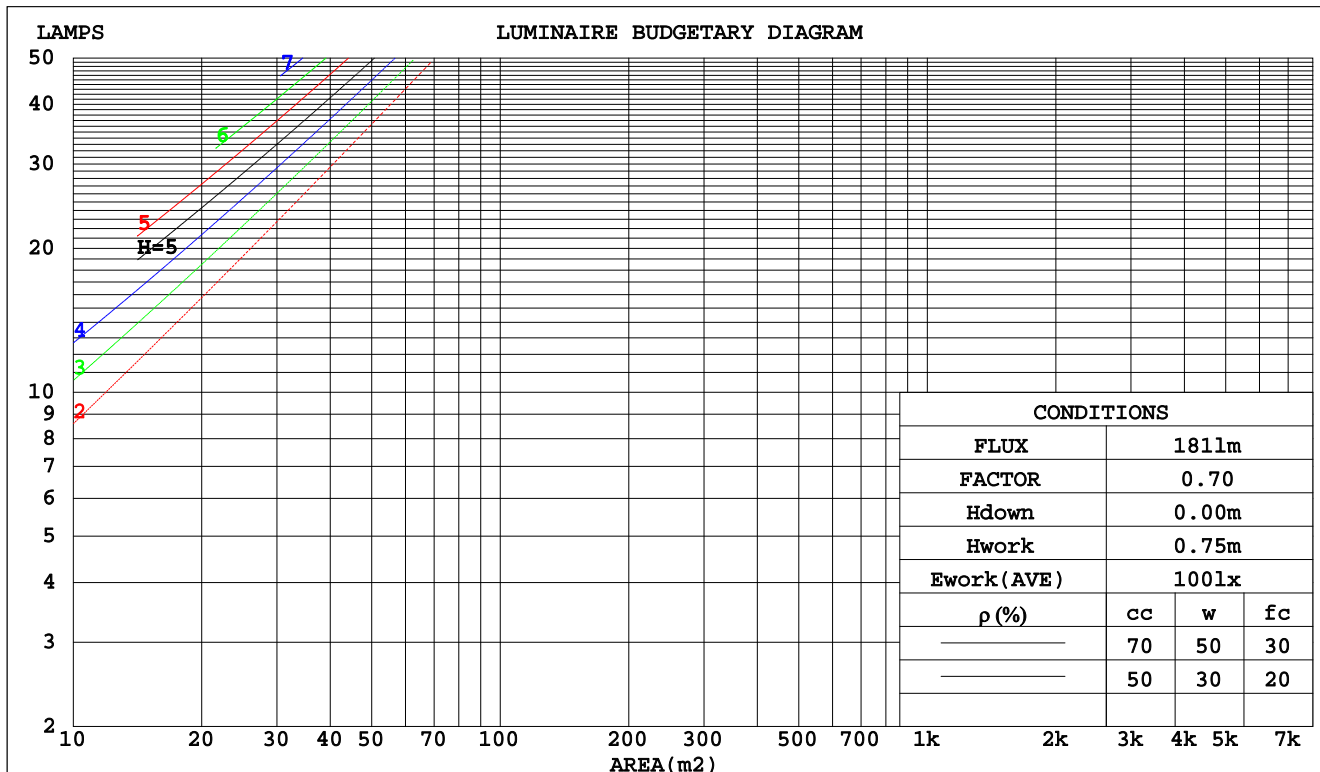
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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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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	Coefficients of Utilization(CU)															
0.0	1.19	1.19	1.19	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00
1.0	1.11	1.08	1.06	1.09	1.07	1.05	1.05	1.03	1.01	1.01	.00	.98	.98	.97	.96	.94
2.0	1.03	.00	.96	1.02	.98	.95	.99	.96	.93	.96	.93	.91	.93	.91	.89	.88
3.0	.97	.92	.88	.95	.91	.87	.93	.89	.86	.90	.87	.85	.88	.86	.83	.82
4.0	.91	.85	.81	.90	.85	.81	.87	.83	.80	.85	.82	.79	.84	.80	.78	.76
5.0	.85	.80	.75	.84	.79	.75	.82	.78	.74	.81	.77	.74	.79	.76	.73	.72
6.0	.80	.74	.70	.79	.74	.70	.78	.73	.70	.77	.72	.69	.75	.72	.69	.67
7.0	.76	.70	.66	.75	.70	.66	.74	.69	.65	.73	.68	.65	.71	.68	.65	.63
8.0	.72	.66	.62	.71	.66	.62	.70	.65	.61	.69	.64	.61	.68	.64	.61	.60
9.0	.68	.62	.58	.67	.62	.58	.66	.61	.58	.66	.61	.58	.65	.61	.58	.56
10.0	.64	.59	.55	.64	.59	.55	.63	.58	.55	.62	.58	.55	.62	.58	.55	.53



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WEC AND CCEC

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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	.175	.100	.032	.168	.096	.030	.156	.089	.029	.144	.083	.027	.133	.077	.025	
2.0	.167	.092	.028	.161	.089	.027	.151	.084	.026	.141	.079	.025	.132	.075	.024	
3.0	.159	.084	.025	.154	.082	.025	.145	.079	.024	.137	.075	.023	.129	.071	.022	
4.0	.151	.078	.023	.147	.077	.023	.139	.074	.022	.132	.071	.021	.125	.068	.021	
5.0	.144	.073	.021	.140	.072	.021	.133	.069	.020	.127	.067	.020	.121	.065	.019	
6.0	.137	.069	.020	.134	.068	.019	.128	.066	.019	.123	.064	.019	.117	.062	.018	
7.0	.131	.065	.018	.128	.064	.018	.123	.062	.018	.118	.061	.018	.114	.059	.017	
8.0	.125	.061	.017	.123	.061	.017	.118	.059	.017	.114	.058	.017	.110	.056	.016	
9.0	.120	.058	.016	.118	.058	.016	.114	.056	.016	.110	.055	.016	.106	.054	.016	
10.0	.115	.055	.015	.113	.055	.015	.110	.054	.015	.106	.053	.015	.103	.052	.015	

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	.190	.190	.190	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020	
1.0	.171	.157	.145	.146	.135	.125	.100	.093	.086	.058	.054	.050	.018	.017	.016	
2.0	.156	.133	.113	.133	.114	.098	.091	.079	.068	.053	.046	.040	.017	.015	.013	
3.0	.143	.114	.090	.123	.098	.078	.084	.068	.055	.049	.040	.032	.016	.013	.011	
4.0	.133	.099	.073	.114	.085	.063	.078	.059	.045	.045	.035	.026	.015	.011	.009	
5.0	.124	.087	.060	.106	.075	.052	.073	.053	.037	.042	.031	.022	.014	.010	.007	
6.0	.116	.078	.050	.100	.067	.044	.069	.047	.031	.040	.028	.018	.013	.009	.006	
7.0	.110	.070	.042	.094	.061	.037	.065	.043	.026	.038	.025	.016	.012	.008	.005	
8.0	.104	.064	.036	.090	.055	.032	.062	.039	.023	.036	.023	.013	.012	.008	.004	
9.0	.099	.059	.032	.085	.051	.028	.059	.036	.020	.034	.021	.012	.011	.007	.004	
10.0	.094	.054	.028	.081	.047	.024	.056	.033	.017	.033	.020	.010	.011	.006	.003	

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γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity:58%
Test Distance:5.850m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

Test:U:221.1V I:0.0562A P:6.215W PF:0.5002 Freq:49.99Hz Lamp Flux:180.835x1 lm										
NAME: CAMPSBAY Single-830-45°					TYPE:Track Light Series					
SPEC.:3000K					DIM.: φ80mm*H90mm					
MFR.: NEKO LIGHTING AG										
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	5.6	6.5	5.8	6.7	6.9	4.2	5.1	4.4	5.3	5.4
3H	5.5	6.3	5.7	6.5	6.7	4.0	4.9	4.3	5.1	5.3
4H	5.4	6.2	5.7	6.4	6.6	3.9	4.7	4.2	5.0	5.2
6H	5.3	6.1	5.6	6.3	6.6	3.9	4.6	4.2	4.9	5.1
8H	5.3	6.0	5.6	6.3	6.5	3.8	4.5	4.1	4.8	5.1
12H	5.2	5.9	5.6	6.2	6.5	3.8	4.5	4.1	4.7	5.0
4H 2H	5.4	6.2	5.6	6.4	6.6	3.9	4.7	4.2	5.0	5.2
3H	5.2	5.9	5.5	6.2	6.5	3.8	4.5	4.1	4.8	5.0
4H	5.2	5.8	5.5	6.1	6.4	3.7	4.3	4.1	4.6	5.0
6H	5.1	5.6	5.5	6.0	6.3	3.6	4.2	4.0	4.5	4.9
8H	5.0	5.6	5.4	5.9	6.3	3.6	4.1	4.0	4.5	4.8
12H	5.0	5.5	5.4	5.8	6.2	3.6	4.0	4.0	4.4	4.8
8H 4H	5.0	5.5	5.4	5.9	6.2	3.6	4.1	4.0	4.4	4.8
6H	4.9	5.4	5.4	5.8	6.2	3.5	3.9	3.9	4.3	4.7
8H	4.9	5.3	5.4	5.7	6.1	3.5	3.8	3.9	4.3	4.7
12H	4.9	5.2	5.3	5.6	6.1	3.4	3.8	3.9	4.2	4.7
12H 4H	5.0	5.4	5.4	5.8	6.2	3.5	4.0	3.9	4.4	4.8
6H	4.9	5.3	5.3	5.7	6.1	3.5	3.8	3.9	4.3	4.7
8H	4.9	5.2	5.3	5.6	6.1	3.4	3.7	3.9	4.2	4.7
Variations with the observer position at spacings:										
S = 1.0H	+ 6.0 / - 8.9					+ 5.2 / - 7.5				
1.5H	+ 8.3 / - 8.5					+ 5.4 / - 6.6				
2.0H	+ 9.2 / - 4.2					+ 1.9 / - 1.7				

CIE Pub.117, 180.8 lm Total Lamp Luminous Flux Correct ($8\log(F/F_0) = -5.9$)

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UTILIZATION FACTORS TABLE

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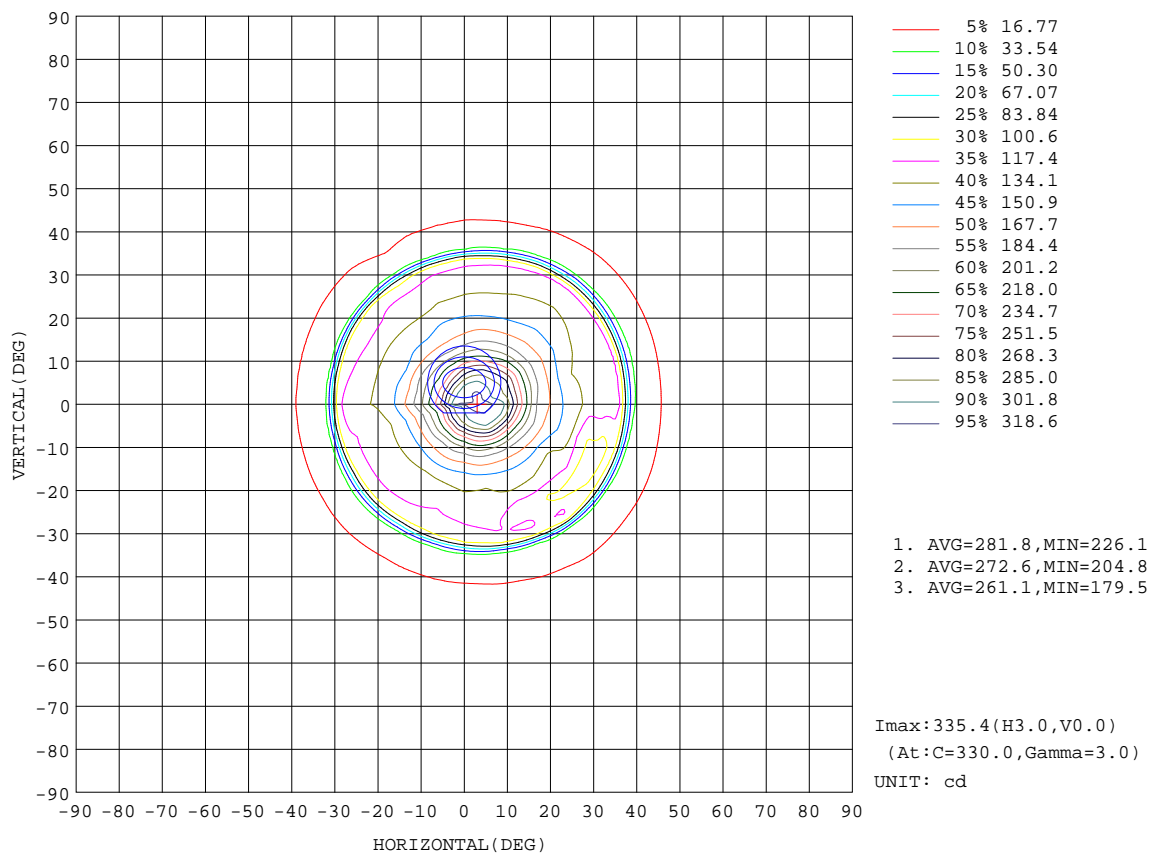
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	88	82	78	87	81	78	87	81	78	74
0.80	95	90	86	95	89	86	93	89	85	82
1.00	100	94	91	99	94	90	97	93	90	86
1.25	104	98	95	102	98	95	101	97	94	90
1.50	106	102	98	105	101	98	103	99	97	92
2.00	109	105	102	107	104	101	105	102	99	94
2.50	110	107	104	109	105	103	106	103	101	95
3.00	112	109	106	110	107	105	107	104	103	96
4.00	114	111	109	112	110	108	108	106	105	98
5.00	115	113	111	113	111	110	109	108	106	99
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

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ISOCANDELA DIAGRAM

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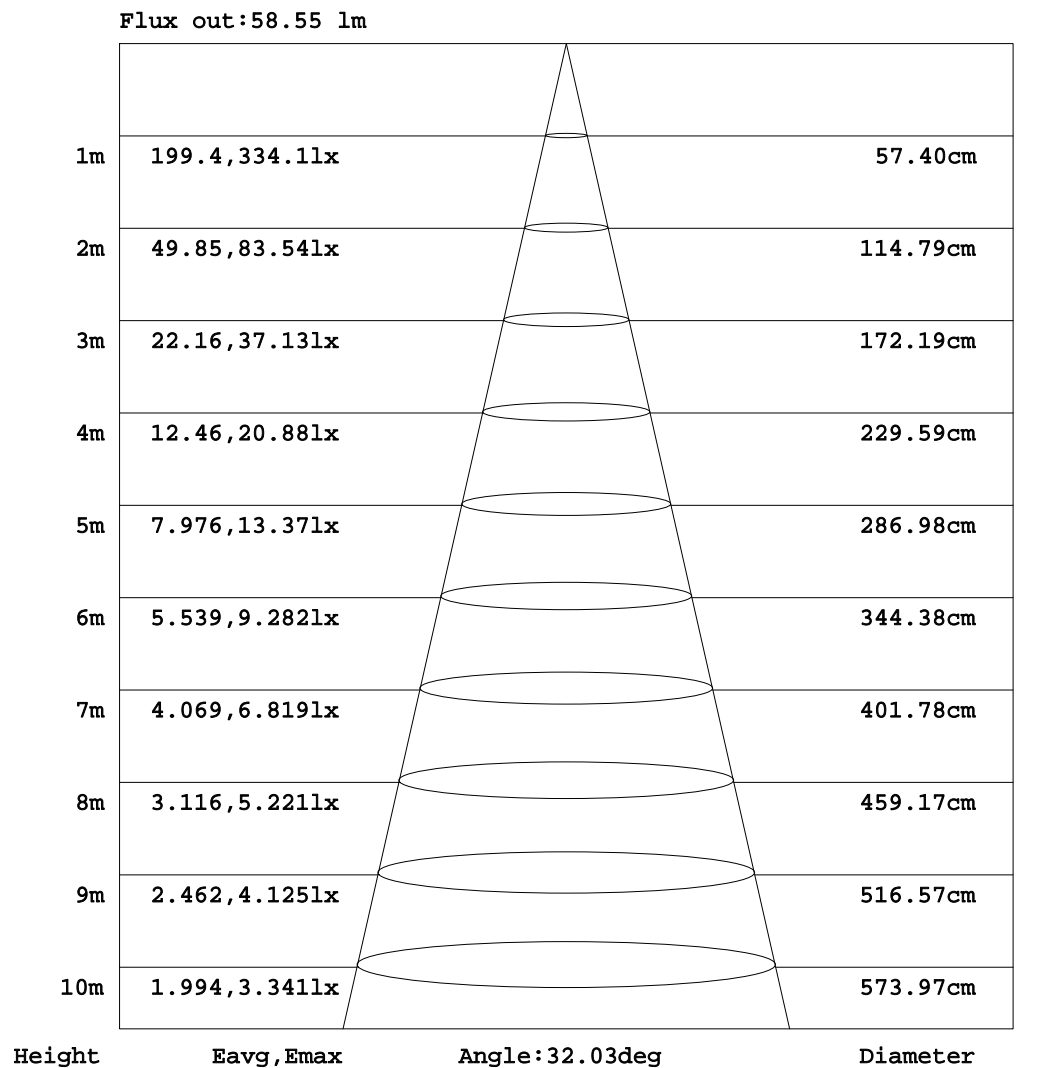


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AAI Figure

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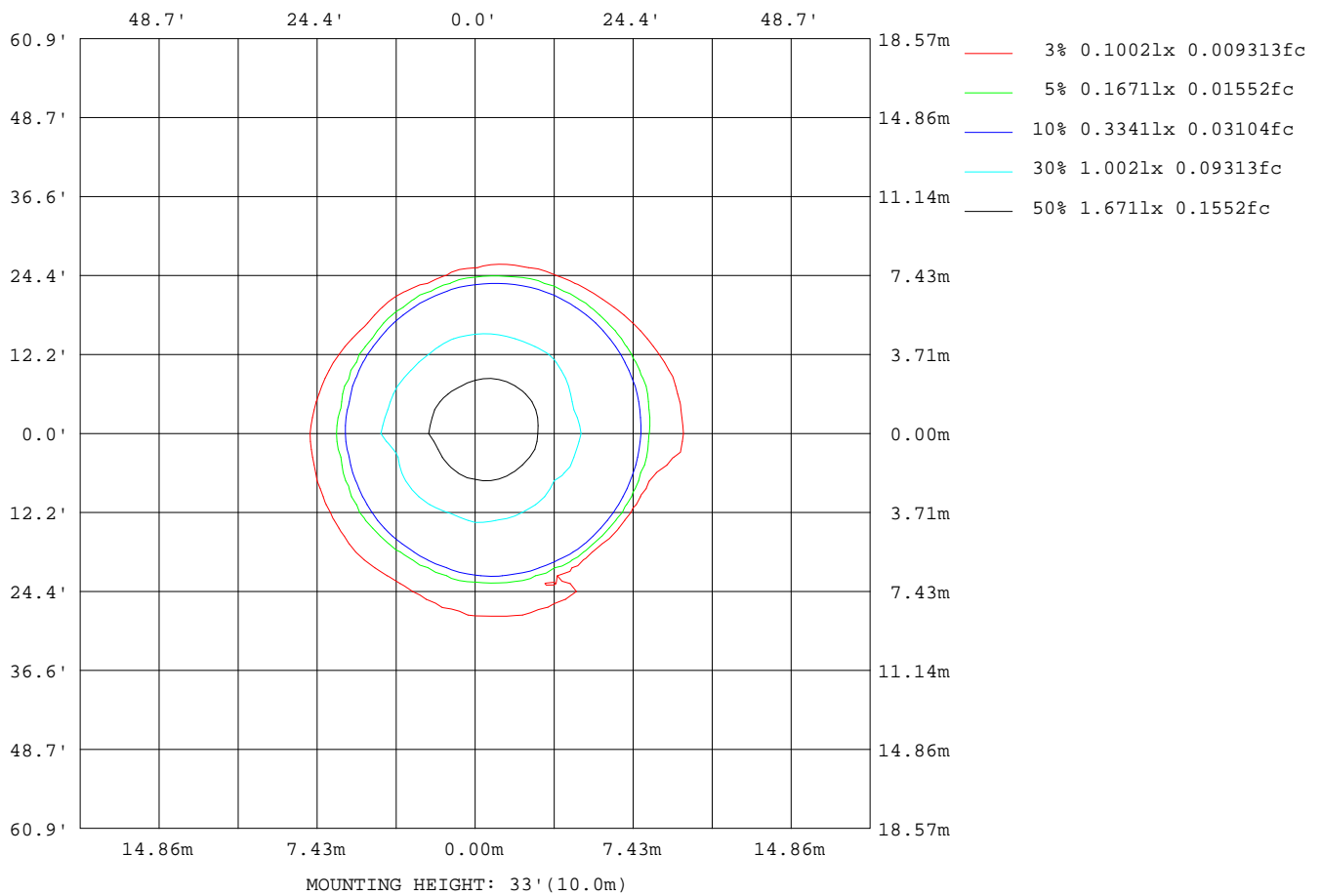
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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ISOLUX DIAGRAM

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LED Avg.L Report

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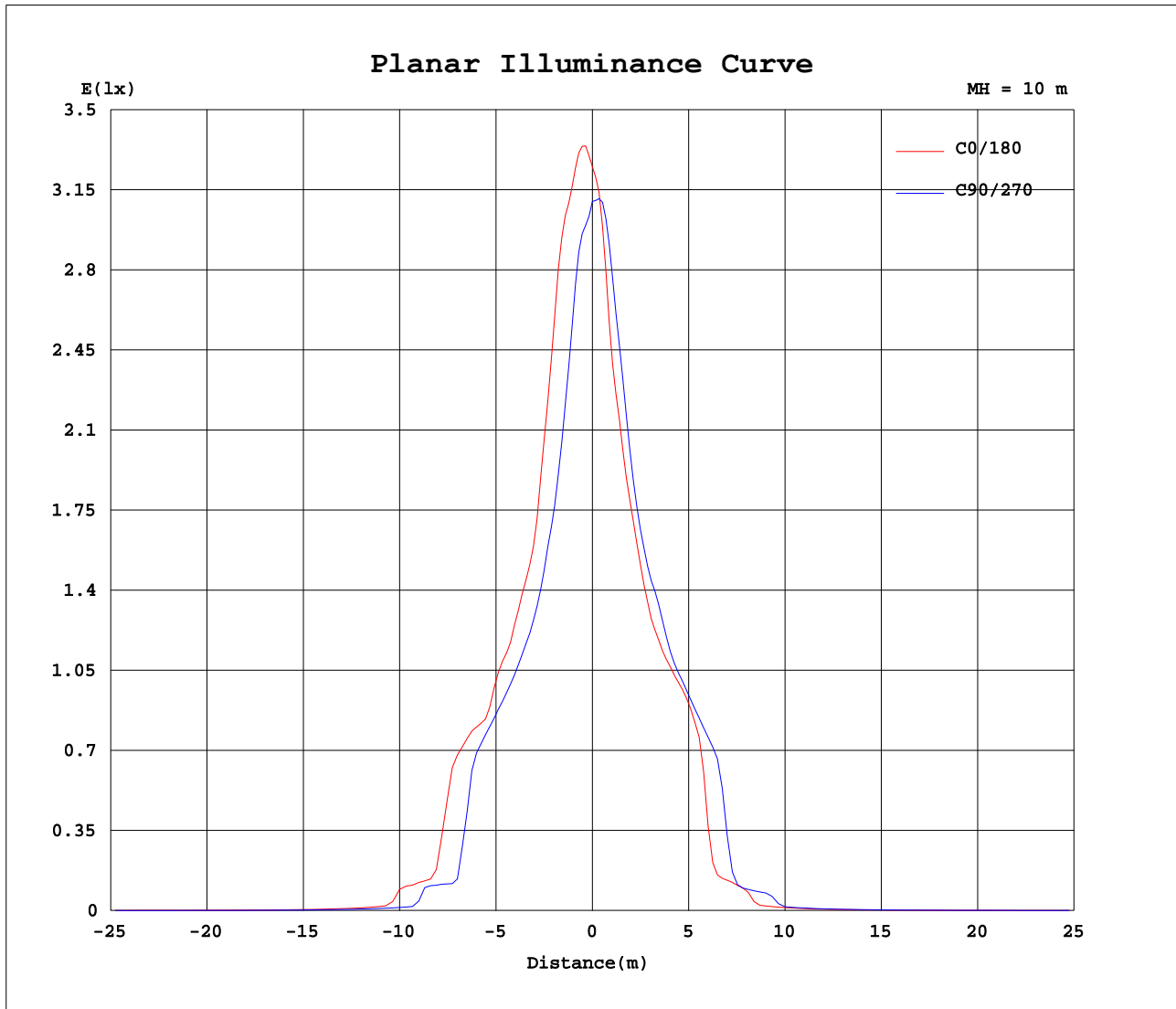
AvgL	cd/m2
L_0~180 (65) av	6
L_0~180 (75) av	4
L_0~180 (85) av	3
L_90~270 (65) av	5
L_90~270 (75) av	4
L_90~270 (85) av	4
L_45 (65) av	5
L_45 (75) av	4
L_45 (85) av	4

Standard: GB/T 29293-2012

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C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2020-06-29

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity:58%
Test Distance:5.850m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Jason
Test Date: 2020-06-29

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity: 58%
Test Distance: 5.850m [K=1.0000]
Remarks:

```

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity:58%
Test Distance:5.850m [K=1.0000]
Remarks:

```

```

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity:58%
Test Distance:5.850m [K=1.0000]
Remarks:

```