

SEAPOINT-830-25°



Light Output Ratio:	100.0%	
Luminaire Power:	6.197 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: 2020-06-24

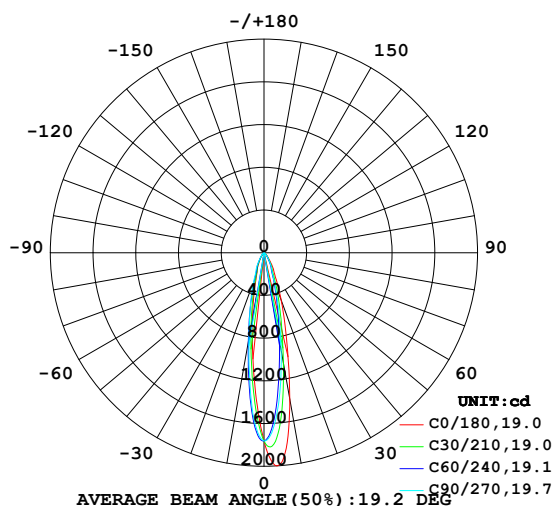
γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity: 58%
Test Distance: 5.850m [K=1.0000]
Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

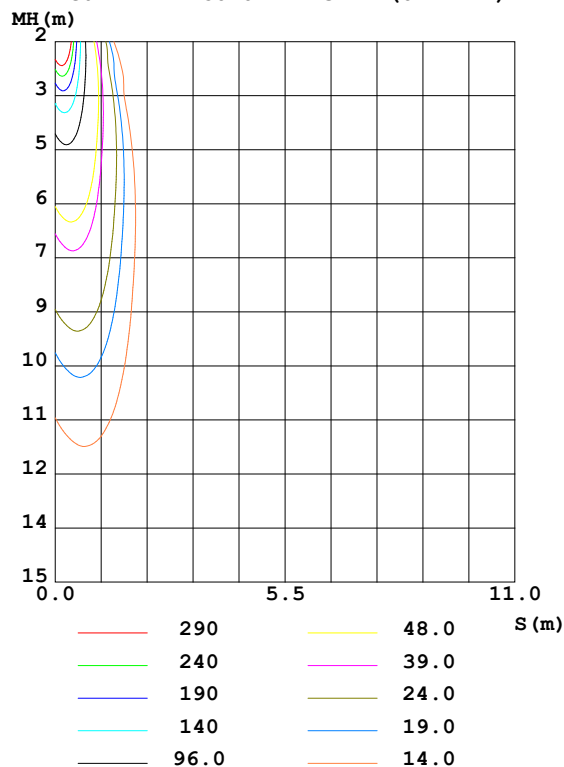
Test:U:220.9V I:0.0540A P:6.197W PF:0.5195 Freq:60.07Hz Lamp Flux:442.055x1 lm		
NAME: SEAPoint-830-25°	TYPE: Recessed Ground Light	SERIAL No.:
SPEC.: 3000K	DIM.: $\phi 106\text{mm} \times H89\text{mm}$	
MFR.: NEKO LIGHTING AG		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 71.34 lm/W			
MODEL	3000K	I _{max} (cd)	2041	S/MH (C0/180)	0.25
NOMINAL POWER (W)	6	LOR (%)	100.0	S/MH (C90/270)	0.32
RATED VOLTAGE (V)	220	TOTAL FLUX (lm)	442.06	η UP, DN (C0-180)	0.0, 59.9
NOMINAL FLUX (lm)	442.055	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 40.1
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)



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Jason
Test Date: 2020-06-24

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.362
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Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	1393	905.7	928.5	1333	628.1	780.4	814.5	679.5	0- 10	122.1	122.1	27.6,27.6
20	470.6	287.5	270.9	413.8	191.6	231.3	278.2	230.4	10- 20	149.8	271.9	61.5,61.5
30	177.3	117.5	121.3	166.1	81.46	96.87	110.5	93.17	20- 30	85.79	357.7	80.9,80.9
40	64.67	44.48	48.06	66.28	31.02	35.46	41.88	39.12	30- 40	47.63	405.3	91.7,91.7
50	28.60	19.84	18.75	24.77	11.24	14.56	19.87	17.54	40- 50	23.67	429.0	97,97
60	9.223	5.917	5.954	8.687	2.424	2.975	3.140	2.297	50- 60	10.03	439.0	99.3,99.3
70	1.427	0.9650	1.356	1.888	0.7231	0.8063	0.6915	0.6229	60- 70	2.369	441.4	99.8,99.8
80	0.3009	0.1384	0.1631	0.1837	0.0720	0.1169	0.1092	0.1180	70- 80	0.5824	442.0	100,100
90	0.0857	0.0554	0.0514	0.0684	0.0270	0.0238	0.0257	0.0306	80- 90	0.0917	442.1	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): 419.17 lm

%lum = 94.8%

%lamp = 94.8%

Conical surface Flux(120deg): 439.01 lm

%lum = 99.3%

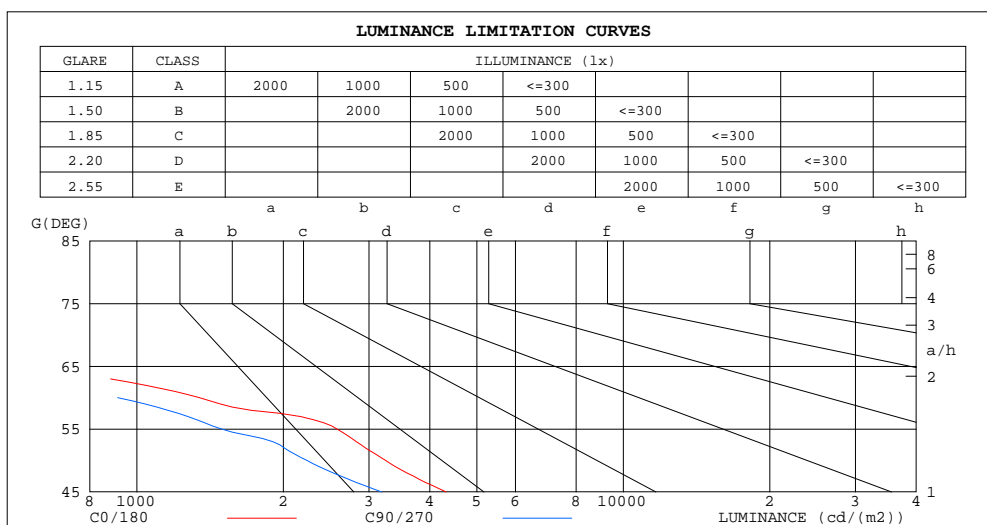
%lamp = 99.3%

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2020-06-24

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity:58%
Test Distance:5.850m [K=1.0000]
Remarks:

LUMINANCE LIMITATION CURVES

Test:U:220.9V I:0.0540A P:6.197W PF:0.5195 Freq:60.07Hz Lamp Flux:442.055x1 lm		
NAME: SEAPOINT-830-25°	TYPE: Recessed Ground Light	SERIAL No.:
SPEC.: 3000K	DIM.: $\phi 106\text{mm} \times H89\text{mm}$	
MFR.: NEKO LIGHTING AG		



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	115	89
80	126	72
75	211	249
70	304	304
65	569	440
60	1345	913
55	2579	1494
50	3245	2237
45	4324	3186

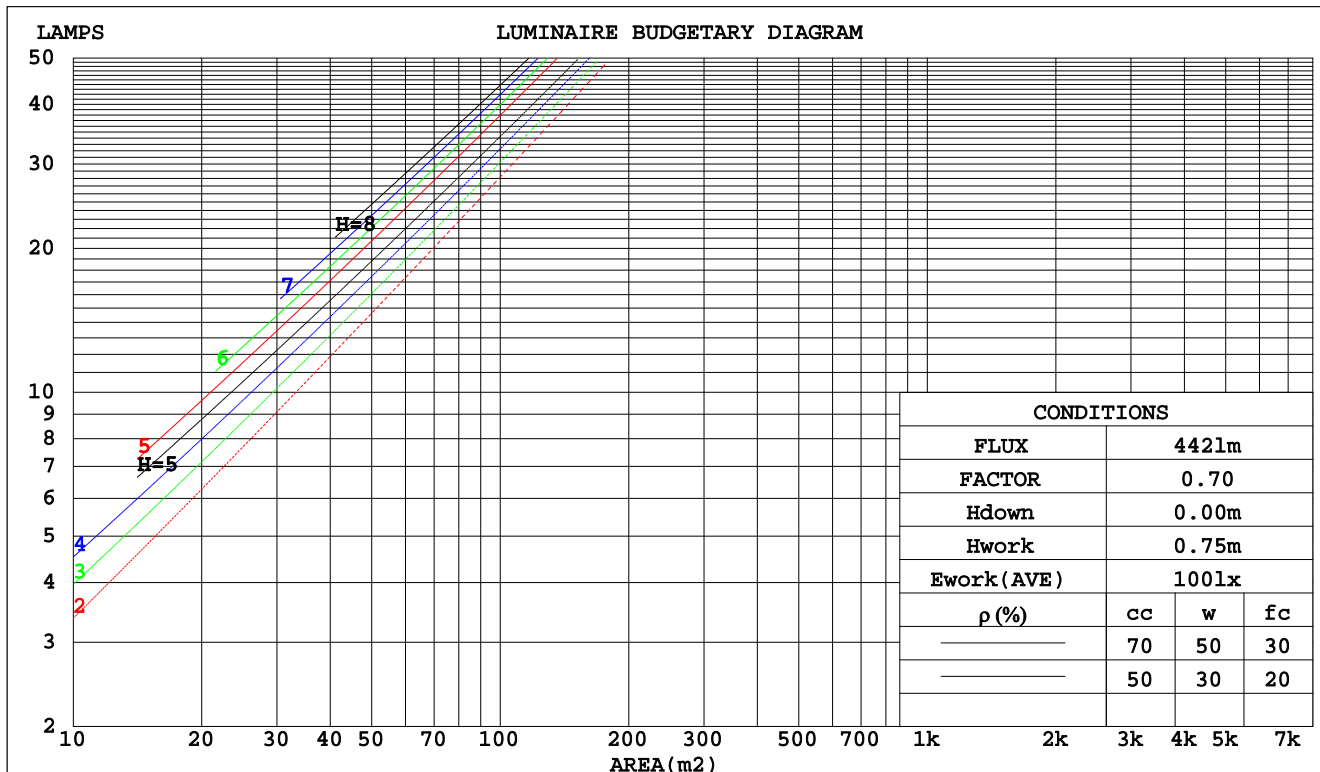
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C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Jason
Test Date: 2020-06-24

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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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NAME: SEAPOINT-830-25°	TYPE: Recessed Ground Light	SERIAL No.:
SPEC.: 3000K	DIM.: ϕ 106mm*H89mm	
MFR.: NEKO LIGHTING AG		

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			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	1.12	1.10	1.08	1.10	1.08	1.06	1.06	1.04	1.03	1.02	1.01	.00	.99	.98	.97	.95
2.0	1.05	1.02	.99	1.04	1.00	.98	1.00	.98	.96	.97	.95	.93	.95	.93	.92	.90
3.0	.99	.95	.92	.98	.94	.91	.96	.92	.90	.93	.90	.88	.91	.89	.87	.85
4.0	.94	.90	.86	.93	.89	.85	.91	.87	.84	.89	.86	.83	.87	.85	.83	.81
5.0	.90	.85	.81	.89	.84	.81	.87	.83	.80	.86	.82	.79	.84	.81	.79	.77
6.0	.86	.81	.77	.85	.80	.77	.83	.79	.76	.82	.78	.76	.81	.78	.75	.74
7.0	.82	.77	.73	.81	.77	.73	.80	.76	.73	.79	.75	.72	.78	.75	.72	.71
8.0	.79	.74	.70	.78	.73	.70	.77	.73	.70	.76	.72	.69	.75	.72	.69	.68
9.0	.76	.71	.67	.75	.70	.67	.74	.70	.67	.73	.70	.67	.73	.69	.67	.65
10.0	.73	.68	.65	.72	.68	.65	.72	.67	.64	.71	.67	.64	.70	.67	.64	.63



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C Interval: 15.0DEG
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Operators: Jason
Test Date: 2020-06-24

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity: 58%
Test Distance: 5.850m [K=1.0000]
Remarks:

WEC AND CCEC

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NAME: SEAPPOINT-830-25°	TYPE: Recessed Ground Light	SERIAL No.:
SPEC.: 3000K	DIM.: ϕ 106mm*H89mm	
MFR.: NEKO LIGHTING AG		

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						Wall Exitance Coefficients(WEC)										
0.0																	
1.0	.158	.090	.028	.152	.086	.027	.139	.080	.025	.128	.074	.024	.117	.068	.022		
2.0	.150	.082	.025	.144	.079	.024	.134	.074	.023	.124	.070	.022	.115	.065	.021		
3.0	.141	.075	.023	.137	.073	.022	.128	.069	.021	.120	.066	.020	.112	.062	.019		
4.0	.134	.069	.020	.130	.068	.020	.122	.065	.019	.115	.062	.019	.109	.059	.018		
5.0	.126	.064	.019	.123	.063	.018	.116	.061	.018	.110	.058	.017	.105	.056	.017		
6.0	.120	.060	.017	.117	.059	.017	.111	.057	.017	.106	.055	.016	.101	.053	.016		
7.0	.114	.056	.016	.111	.055	.016	.106	.054	.015	.102	.052	.015	.097	.051	.015		
8.0	.109	.053	.015	.106	.052	.015	.102	.051	.015	.098	.050	.014	.094	.048	.014		
9.0	.104	.050	.014	.102	.050	.014	.098	.048	.014	.094	.047	.013	.091	.046	.013		
10.0	.099	.048	.013	.097	.047	.013	.094	.046	.013	.091	.045	.013	.087	.044	.013		

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						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.190	.190	.190	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020	
1.0	.170	.157	.146	.145	.135	.126	.099	.093	.087	.057	.054	.051	.018	.017	.016	
2.0	.153	.133	.115	.131	.114	.100	.090	.079	.069	.052	.046	.041	.017	.015	.013	
3.0	.140	.113	.092	.120	.098	.080	.082	.068	.056	.047	.040	.033	.015	.013	.011	
4.0	.128	.098	.076	.110	.085	.066	.076	.059	.046	.044	.035	.027	.014	.011	.009	
5.0	.119	.086	.063	.102	.075	.054	.070	.052	.038	.041	.031	.023	.013	.010	.008	
6.0	.110	.077	.053	.095	.067	.046	.066	.047	.032	.038	.027	.019	.012	.009	.006	
7.0	.103	.069	.045	.089	.060	.039	.061	.042	.028	.036	.025	.016	.012	.008	.005	
8.0	.097	.062	.039	.084	.054	.034	.058	.038	.024	.034	.022	.014	.011	.007	.005	
9.0	.092	.057	.034	.079	.049	.029	.055	.035	.021	.032	.021	.012	.010	.007	.004	
10.0	.087	.052	.029	.075	.045	.026	.052	.032	.018	.030	.019	.011	.010	.006	.004	

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Jason
Test Date: 2020-06-24

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
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:220.9V I:0.0540A P:6.197W PF:0.5195 Freq:60.07Hz Lamp Flux:442.055x1 lm										
NAME: SEAPOINT-830-25°					TYPE: Recessed Ground Light			SERIAL No.:		
SPEC.: 3000K					DIM.: ϕ 106mm*H89mm					
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	15.2	16.0	15.4	16.1	16.3	13.2	14.0	13.4	14.2	14.3
3H	15.1	15.8	15.3	16.0	16.2	13.1	13.9	13.4	14.1	14.2
4H	15.0	15.7	15.3	15.9	16.1	13.1	13.8	13.3	14.0	14.2
6H	14.9	15.6	15.2	15.8	16.1	13.0	13.6	13.3	13.9	14.1
8H	14.9	15.5	15.2	15.8	16.0	12.9	13.6	13.2	13.8	14.1
12H	14.8	15.4	15.1	15.7	16.0	12.9	13.5	13.2	13.8	14.0
4H 2H	15.0	15.7	15.3	15.9	16.1	13.1	13.8	13.4	14.1	14.3
3H	14.9	15.5	15.2	15.8	16.0	13.0	13.6	13.3	13.9	14.2
4H	14.8	15.4	15.2	15.7	16.0	13.0	13.5	13.3	13.8	14.1
6H	14.7	15.2	15.1	15.5	15.9	12.9	13.4	13.2	13.7	14.0
8H	14.7	15.1	15.1	15.5	15.8	12.8	13.3	13.2	13.6	14.0
12H	14.6	15.0	15.0	15.4	15.8	12.8	13.2	13.2	13.6	14.0
8H 4H	14.7	15.1	15.1	15.5	15.8	12.8	13.3	13.2	13.6	14.0
6H	14.6	14.9	15.0	15.3	15.8	12.7	13.1	13.2	13.5	13.9
8H	14.5	14.9	15.0	15.3	15.7	12.7	13.0	13.1	13.4	13.9
12H	14.5	14.7	14.9	15.2	15.7	12.6	12.9	13.1	13.3	13.8
12H 4H	14.6	15.0	15.0	15.4	15.8	12.8	13.2	13.2	13.6	14.0
6H	14.5	14.8	15.0	15.3	15.7	12.7	13.0	13.1	13.4	13.9
8H	14.5	14.7	14.9	15.2	15.7	12.6	12.9	13.1	13.3	13.8
Variations with the observer position at spacings:										
S = 1.0H	+ 2.1 / - 3.0					+ 2.3 / - 4.5				
1.5H	+ 2.9 / - 2.3					+ 2.9 / - 2.9				
2.0H	+ 3.4 / - 8.3					+ 3.6 / - 7.3				

CIE Pub.117, 442.1 lm Total Lamp Luminous Flux Correct ($8\log(F/F_0) = -2.8$)

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Jason
Test Date: 2020-06-24

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity: 58%
Test Distance: 5.850m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:220.9V I:0.0540A P:6.197W PF:0.5195 Freq:60.07Hz Lamp Flux:442.055x1 lm		
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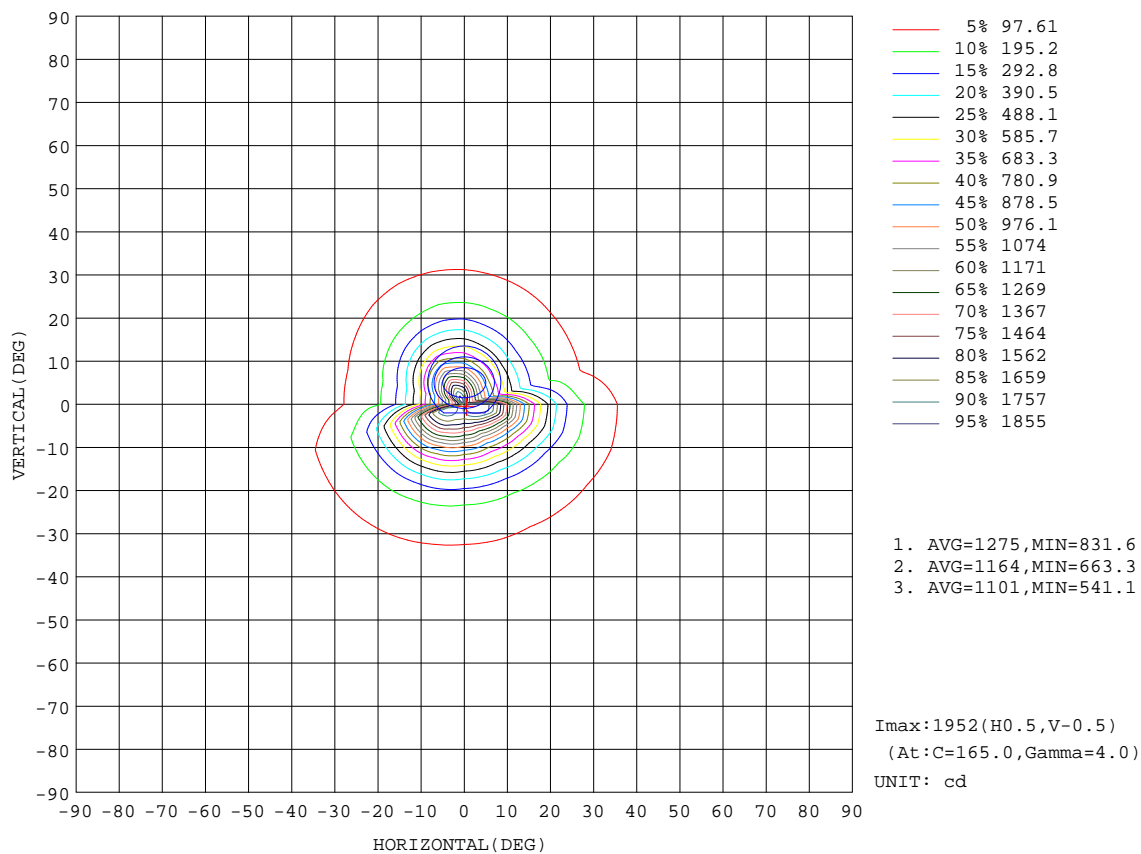
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	86	80	76	86	79	76	85	79	76	72
0.80	94	88	84	93	88	84	92	87	83	80
1.00	99	93	89	98	92	89	96	92	88	84
1.25	103	97	94	102	97	94	100	96	93	89
1.50	106	101	97	104	100	97	102	98	96	91
2.00	108	104	101	107	103	100	104	101	99	93
2.50	110	106	103	108	105	102	105	103	100	94
3.00	112	108	105	110	107	104	106	104	102	96
4.00	114	111	109	112	109	107	108	106	105	97
5.00	115	113	111	113	111	109	109	107	106	98
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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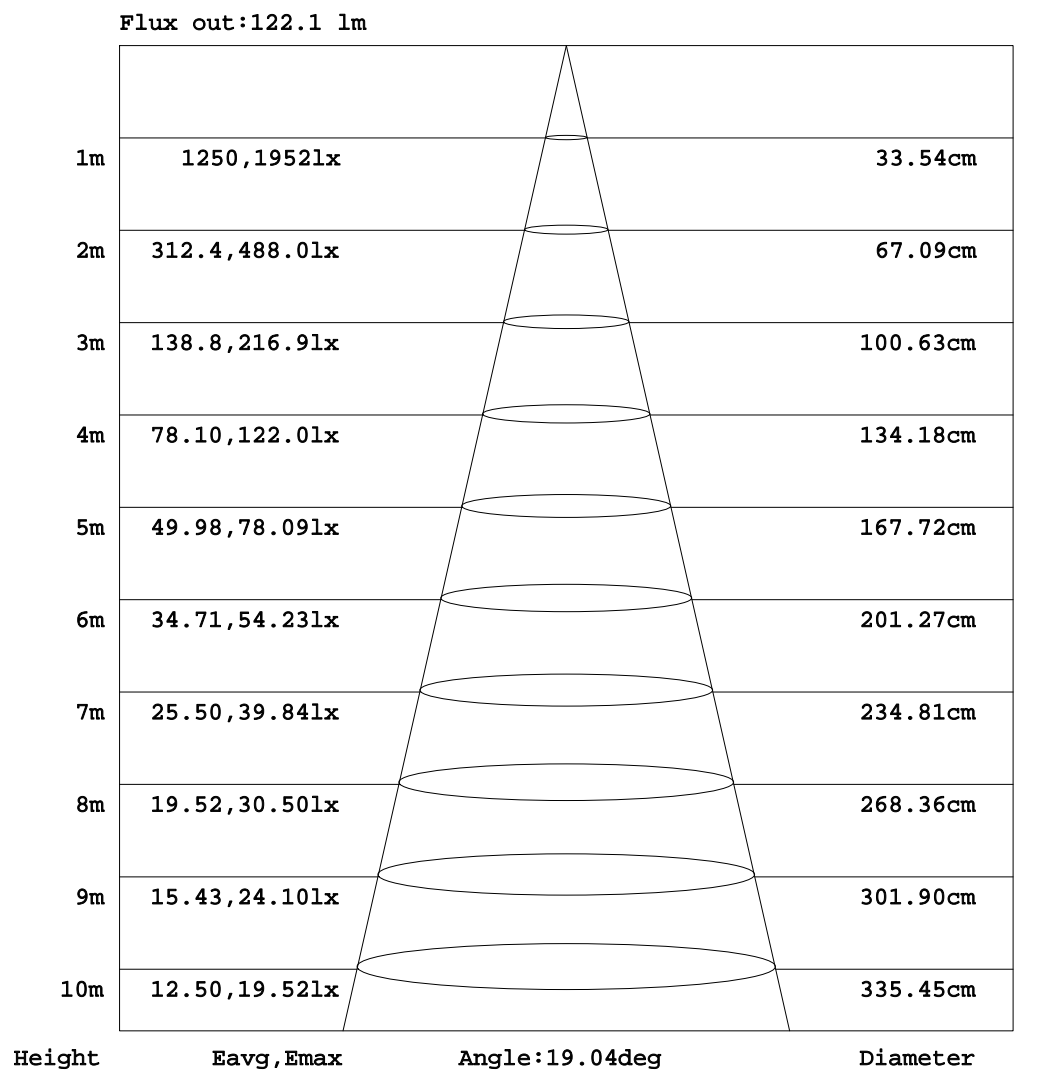


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AAI Figure

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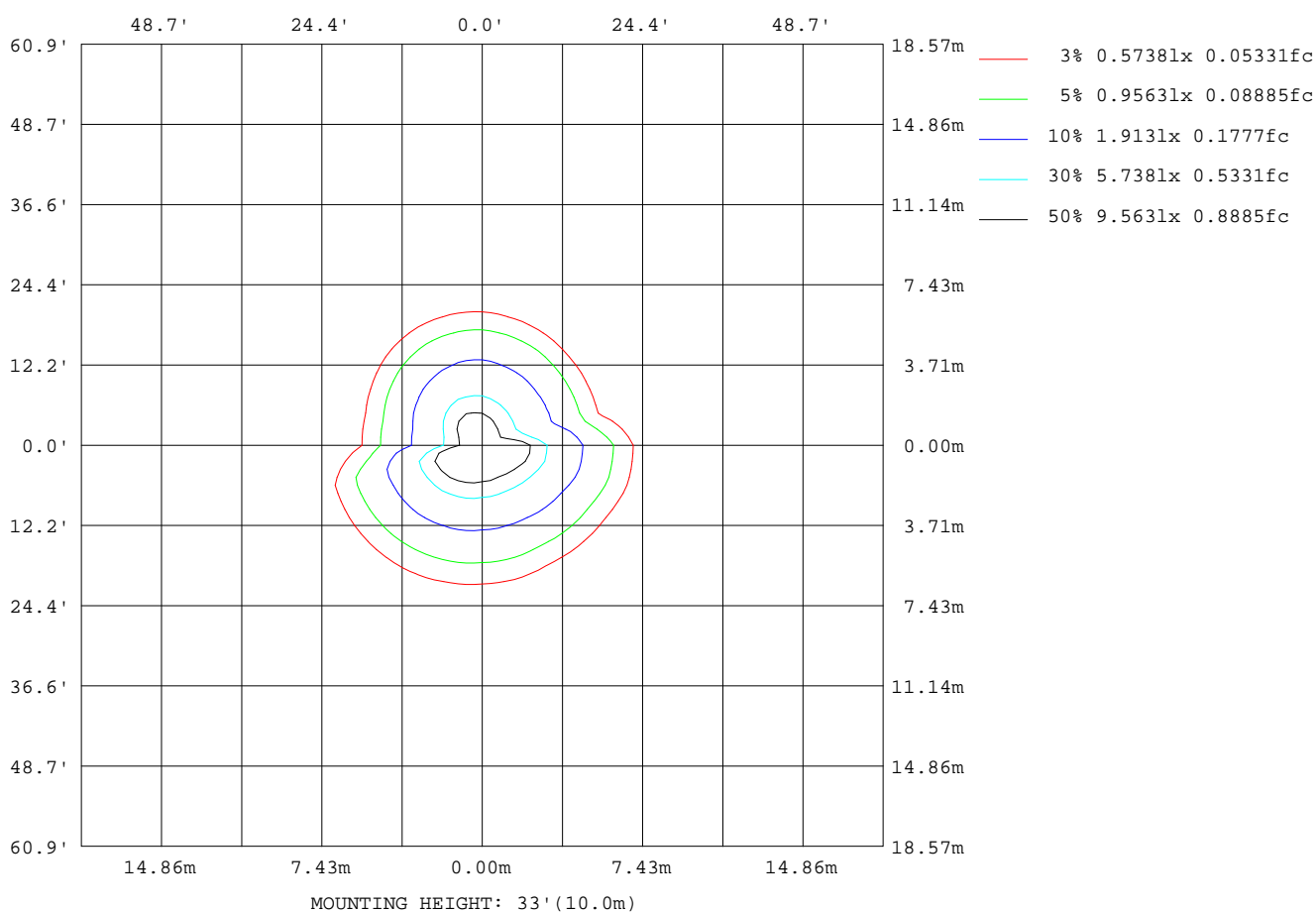
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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ISOLUX DIAGRAM

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LED Avg.L Report

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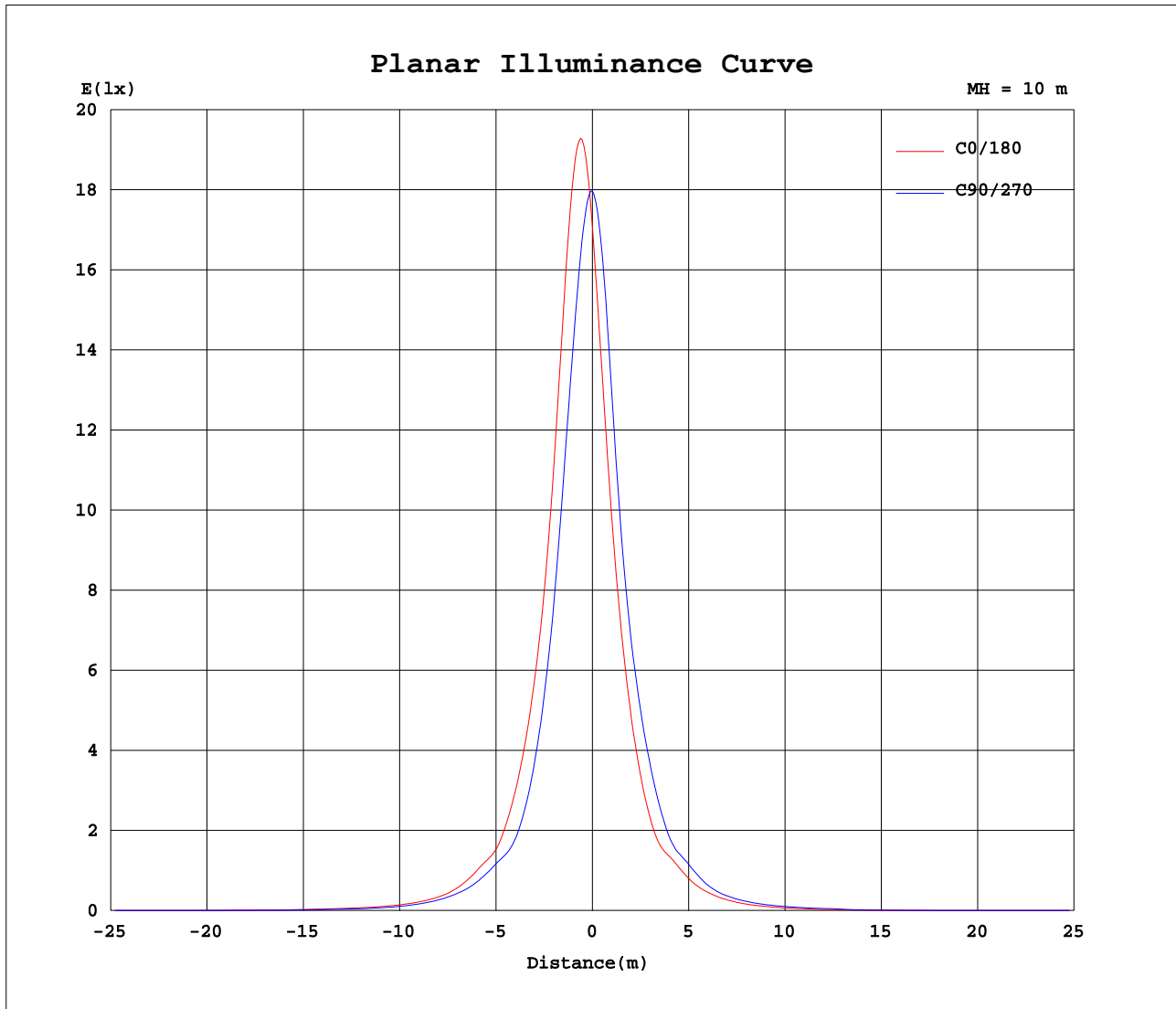
AvgL	cd/m2
L_0~180 (65) av	402
L_0~180 (75) av	127
L_0~180 (85) av	72
L_90~270 (65) av	337
L_90~270 (75) av	181
L_90~270 (85) av	69
L_45 (65) av	362
L_45 (75) av	151
L_45 (85) av	67

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Jason
Test Date: 2020-06-24

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
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: 2020-06-24

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
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: 0.5DEG
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: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity:58%
Test Distance:5.850m [K=1.0000]
Remarks:

```