

LED Recessed Ground Light TERARACE Mini-5.5W-830-30



Light Output Ratio:	100.0%	
Luminaire Power:	5.616 W	
SHR Nominal:	0.50	Calculated using the TM5
SHR Maximum:	0.55	fine grid method.

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Jason Long
Test Date: 2019-05-18

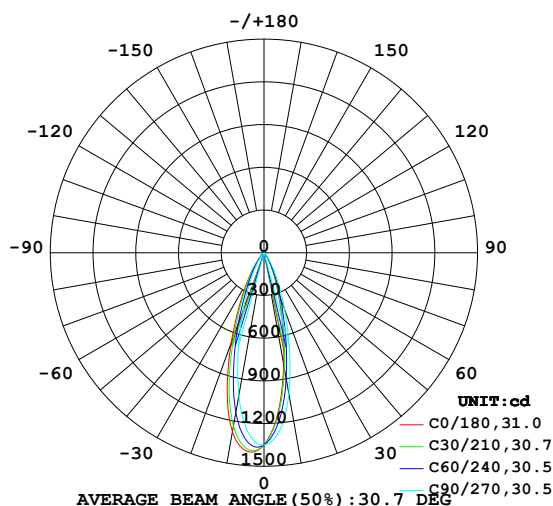
γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity: 56%
Test Distance: 5.850m [K=1.0000]
Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

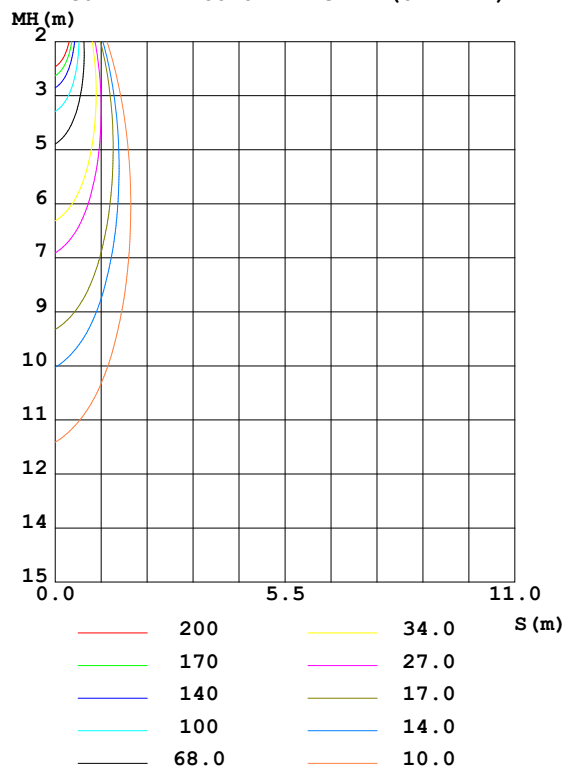
Test:U:24.00V I:0.2340A P:5.616W PF:1.000 Freq:0Hz Lamp Flux:503.953x1 lm		
NAME: TERARACE Mini-5.5W-830-30	TYPE:Downlight	SERIAL No.:
SPEC.:3000K	DIM.: ϕ 40mm*H102mm	
MFR.: NEKO LIGHTING AG		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 89.74 lm/W			
MODEL	CITIZEN-3000K	I _{max} (cd)	1403	S/MH (C0/180)	0.64
NOMINAL POWER (W)	5.5	LOR (%)	100.0	S/MH (C90/270)	0.51
RATED VOLTAGE (V)	24	TOTAL FLUX (lm)	503.95	η UP, DN (C0-180)	0.0, 48.4
NOMINAL FLUX (lm)	503.953	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 51.6
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	0.50
TEST VOLTAGE (V)	24	η down (%)	100.0	CIBSE SHR MAX	0.55

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



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ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	797.7	863.8	1004	1192	1277	1182	1017	854.7	0- 10	112.8	112.8	22.4,22.4
20	284.0	318.3	424.5	592.7	673.8	563.1	426.4	322.0	10- 20	196.6	309.4	61.4,61.4
30	82.12	91.47	130.6	202.7	235.3	186.3	136.8	98.59	20- 30	122.6	432.0	85.7,85.7
40	21.87	22.72	29.77	47.70	59.04	46.66	36.00	27.85	30- 40	49.20	481.2	95.5,95.5
50	6.601	7.543	10.08	13.70	15.06	13.75	11.53	8.436	40- 50	15.51	496.7	98.6,98.6
60	1.292	1.528	2.470	4.300	5.114	3.976	2.373	1.578	50- 60	5.463	502.2	99.7,99.7
70	0.2993	0.3590	0.5806	0.8965	1.101	0.8161	0.5284	0.3670	60- 70	1.408	503.6	99.9,99.9
80	0.0480	0.0283	0.0833	0.1074	0.1521	0.1354	0.0610	0.0505	70- 80	0.2942	503.9	100,100
90	0.0283	0.0262	0.0262	0.0307	0.0327	0.0262	0.0153	0.0176	80- 90	0.0437	504.0	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): 490.93 lm

%lum = 97.4%

%lamp = 97.4%

Conical surface Flux(120deg): 502.21 lm

%lum = 99.7%

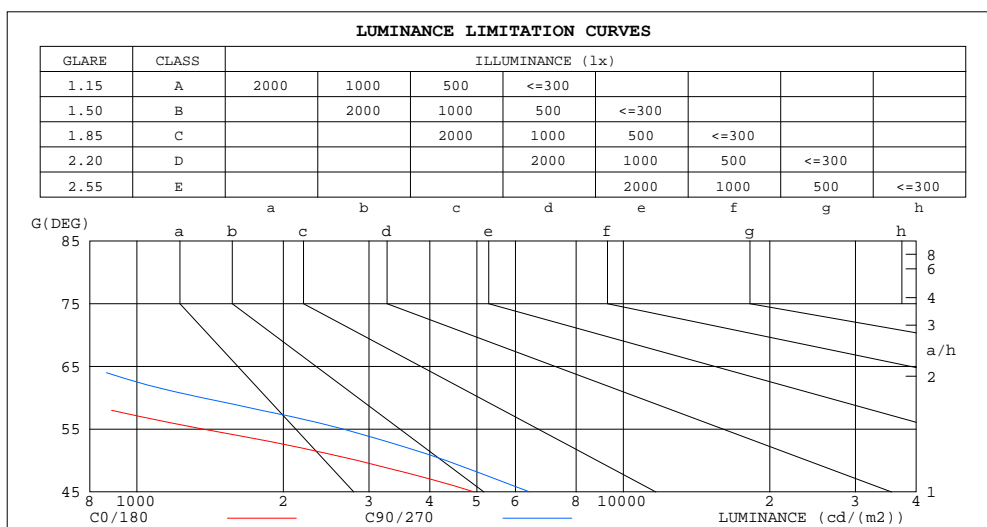
%lamp = 99.7%

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γ Range: 0 - 90DEG
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Humidity:56%
Test Distance:5.850m [K=1.0000]
Remarks:

LUMINANCE LIMITATION CURVES

Test:U:24.00V I:0.2340A P:5.616W PF:1.000 Freq:0Hz Lamp Flux:503.953x1 lm		
NAME: TERARACE Mini-5.5W-830-30	TYPE:Downlight	SERIAL No.:
SPEC.:3000K	DIM.: $\phi 40\text{mm} \times \text{H}102\text{mm}$	
MFR.: NEKO LIGHTING AG		



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	97	131
80	76	132
75	112	236
70	242	468
65	443	787
60	714	1360
55	1366	2655
50	2838	4316
45	4936	6426

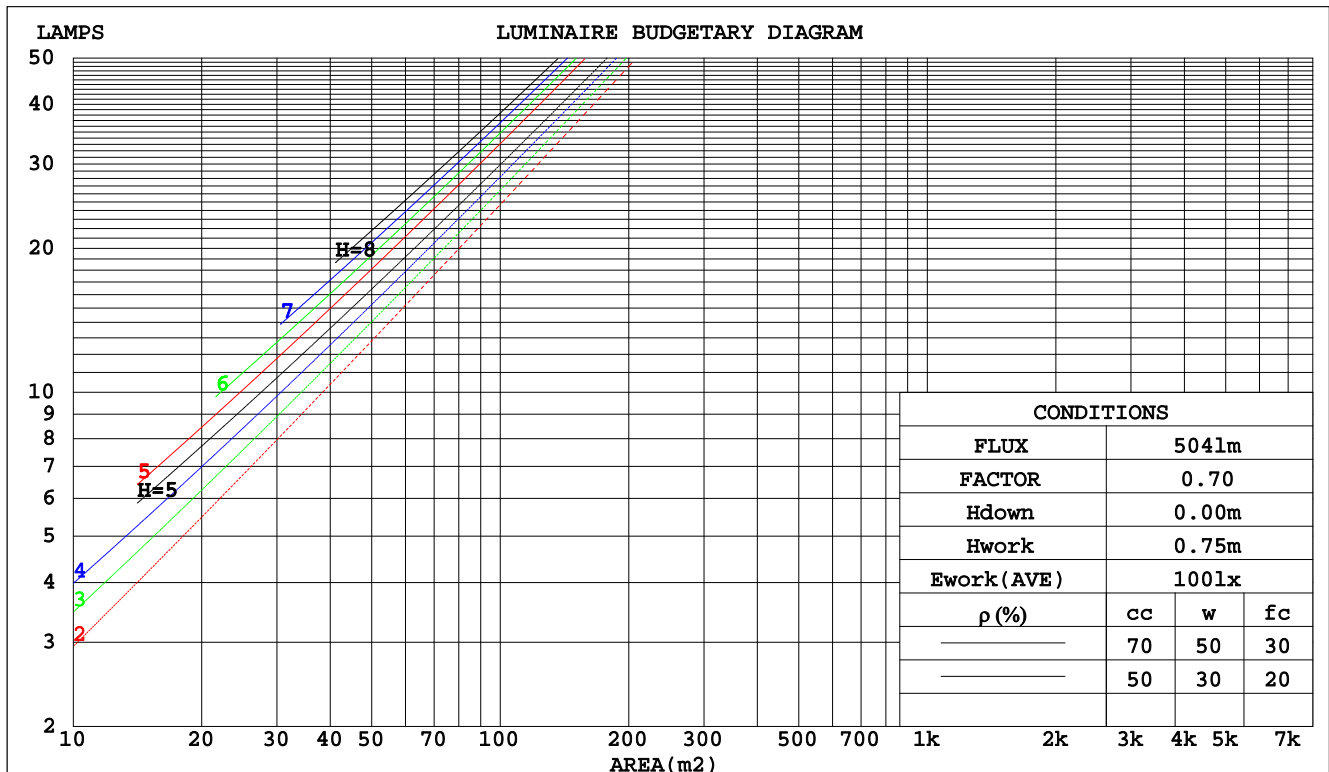
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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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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	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	1.01	.98	1.01	.98	.96	.98	.96	.94	.95	.93	.92	.90
3.0	.00	.96	.92	.98	.95	.91	.96	.93	.90	.94	.91	.89	.91	.89	.87	.86
4.0	.95	.90	.86	.94	.89	.86	.92	.88	.85	.90	.87	.84	.88	.85	.83	.82
5.0	.90	.85	.82	.89	.85	.81	.88	.84	.81	.86	.83	.80	.84	.82	.79	.78
6.0	.86	.81	.77	.85	.81	.77	.84	.80	.77	.83	.79	.76	.81	.78	.76	.74
7.0	.82	.77	.74	.82	.77	.73	.80	.76	.73	.79	.76	.73	.78	.75	.72	.71
8.0	.79	.74	.70	.78	.73	.70	.77	.73	.70	.76	.72	.70	.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	.71	.67	.64	.71	.67	.64	.70	.67	.64	.63



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WEC AND CCEC

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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	.156	.089	.028	.149	.085	.027	.137	.078	.025	.125	.072	.023	.115	.067	.021		
2.0	.147	.081	.025	.142	.078	.024	.131	.073	.023	.122	.068	.021	.113	.064	.020		
3.0	.139	.074	.022	.134	.072	.022	.126	.068	.021	.117	.064	.020	.110	.061	.019		
4.0	.131	.068	.020	.128	.067	.020	.120	.064	.019	.113	.061	.018	.107	.058	.018		
5.0	.125	.064	.018	.121	.062	.018	.115	.060	.018	.109	.057	.017	.103	.055	.017		
6.0	.119	.059	.017	.116	.058	.017	.110	.056	.016	.105	.054	.016	.100	.053	.016		
7.0	.113	.056	.016	.111	.055	.016	.106	.053	.015	.101	.052	.015	.097	.050	.015		
8.0	.108	.053	.015	.106	.052	.015	.101	.051	.014	.097	.049	.014	.094	.048	.014		
9.0	.104	.050	.014	.102	.049	.014	.098	.048	.014	.094	.047	.013	.091	.046	.013		
10.0	.099	.048	.013	.098	.047	.013	.094	.046	.013	.091	.045	.013	.088	.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	.147	.145	.135	.126	.099	.093	.087	.057	.054	.051	.018	.017	.016	
2.0	.153	.133	.115	.131	.114	.100	.090	.079	.070	.052	.046	.041	.017	.015	.013	
3.0	.139	.113	.093	.119	.098	.080	.082	.068	.056	.047	.040	.033	.015	.013	.011	
4.0	.128	.098	.076	.110	.085	.066	.075	.059	.046	.044	.035	.027	.014	.011	.009	
5.0	.118	.086	.063	.102	.075	.055	.070	.052	.039	.041	.031	.023	.013	.010	.008	
6.0	.110	.077	.053	.095	.066	.046	.065	.047	.033	.038	.027	.019	.012	.009	.006	
7.0	.103	.069	.045	.089	.060	.039	.061	.042	.028	.036	.025	.017	.011	.008	.005	
8.0	.097	.062	.039	.083	.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	

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γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity:56%
Test Distance:5.850m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

Test:U:24.00V I:0.2340A P:5.616W PF:1.000 Freq:0Hz Lamp Flux:503.953x1 lm										
NAME: TERARACE Mini-5.5W-830-30					TYPE:Downlight			SERIAL No.:		
SPEC.:3000K					DIM.: ϕ 40mm*H102mm					
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	11.5	12.2	11.7	12.4	12.6	13.3	14.1	13.5	14.3	14.4
3H	11.3	12.1	11.6	12.2	12.4	13.2	13.9	13.4	14.1	14.3
4H	11.2	11.9	11.5	12.1	12.4	13.1	13.8	13.4	14.0	14.2
6H	11.2	11.8	11.4	12.0	12.3	13.0	13.7	13.3	13.9	14.1
8H	11.1	11.7	11.4	12.0	12.2	13.0	13.6	13.3	13.8	14.1
12H	11.1	11.7	11.4	11.9	12.2	12.9	13.5	13.2	13.8	14.1
4H 2H	11.3	12.0	11.5	12.2	12.4	13.1	13.8	13.4	14.0	14.2
3H	11.1	11.7	11.4	12.0	12.3	13.0	13.6	13.3	13.8	14.1
4H	11.0	11.6	11.4	11.9	12.2	12.9	13.4	13.2	13.7	14.0
6H	10.9	11.4	11.3	11.7	12.1	12.8	13.3	13.1	13.6	13.9
8H	10.9	11.3	11.3	11.7	12.0	12.7	13.2	13.1	13.5	13.9
12H	10.8	11.2	11.2	11.6	12.0	12.7	13.1	13.1	13.4	13.8
8H 4H	10.9	11.3	11.3	11.7	12.0	12.7	13.2	13.1	13.5	13.9
6H	10.8	11.1	11.2	11.5	11.9	12.6	13.0	13.0	13.4	13.8
8H	10.7	11.0	11.2	11.5	11.9	12.6	12.9	13.0	13.3	13.7
12H	10.7	10.9	11.1	11.4	11.8	12.5	12.8	13.0	13.2	13.7
12H 4H	10.8	11.2	11.2	11.6	12.0	12.7	13.1	13.1	13.4	13.8
6H	10.7	11.0	11.2	11.5	11.9	12.5	12.9	13.0	13.3	13.7
8H	10.7	10.9	11.1	11.4	11.8	12.5	12.8	13.0	13.2	13.7
Variations with the observer position at spacings:										
S = 1.0H	+ 2.9 / - 8.4					+ 3.7 / - 6.7				
1.5H	+ 4.1 / - 6.1					+ 5.1 / - 5.7				
2.0H	+ 5.3 / - 7.5					+ 5.2 / - 7.8				

CIE Pub.117, 504.0 lm Total Lamp Luminous Flux Correct ($8\log(F/F_0) = -2.4$)

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 γ Interval: 1.0DEG
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Humidity:56%
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Remarks:

UTILIZATION FACTORS TABLE

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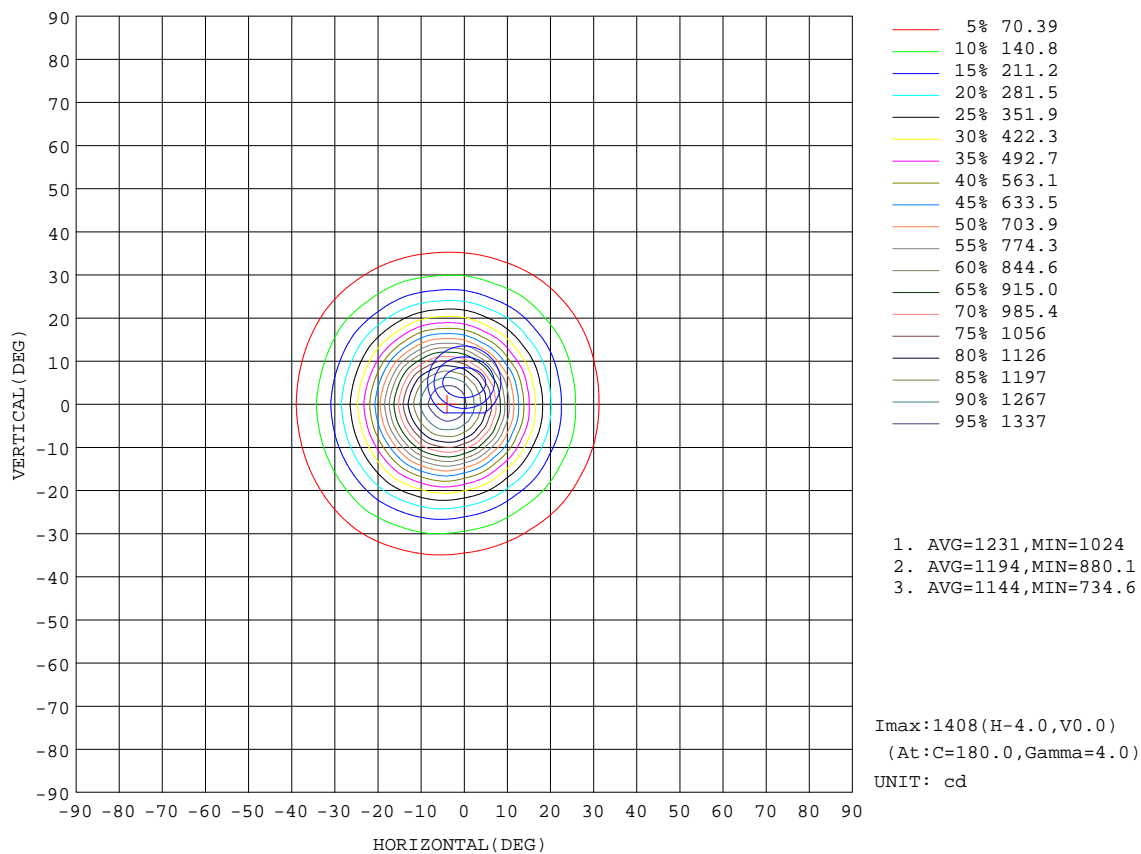
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	89	83	79	88	82	79	87	82	79	75
0.80	96	90	87	95	90	87	94	89	86	83
1.00	100	95	91	99	94	91	98	94	91	87
1.25	104	99	96	103	99	95	101	97	95	91
1.50	107	102	99	105	101	98	103	100	97	93
2.00	109	105	102	108	104	101	105	102	100	95
2.50	111	107	104	109	106	103	106	103	101	96
3.00	112	109	106	110	108	105	107	105	103	97
4.00	114	111	109	112	110	108	109	107	105	98
5.00	115	113	111	113	111	110	109	108	107	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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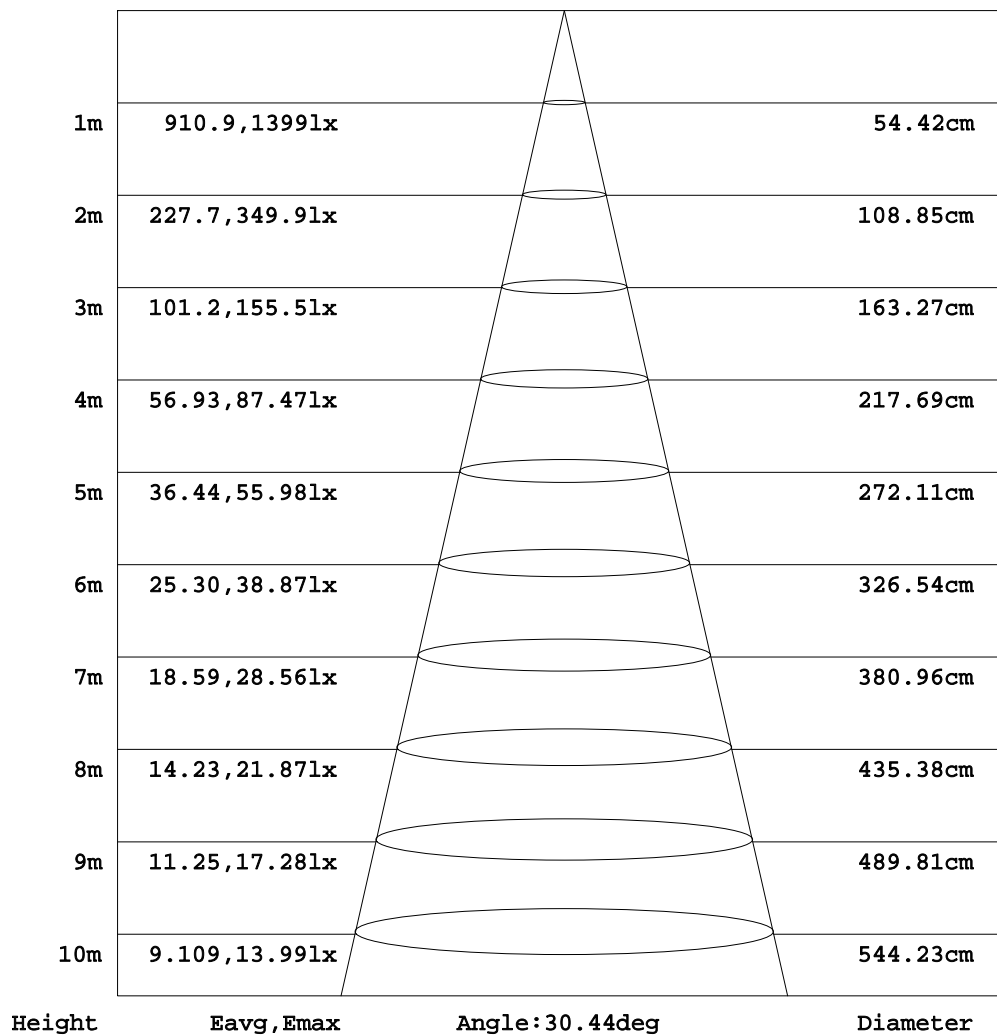
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AAI Figure

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Flux out:235.3 lm



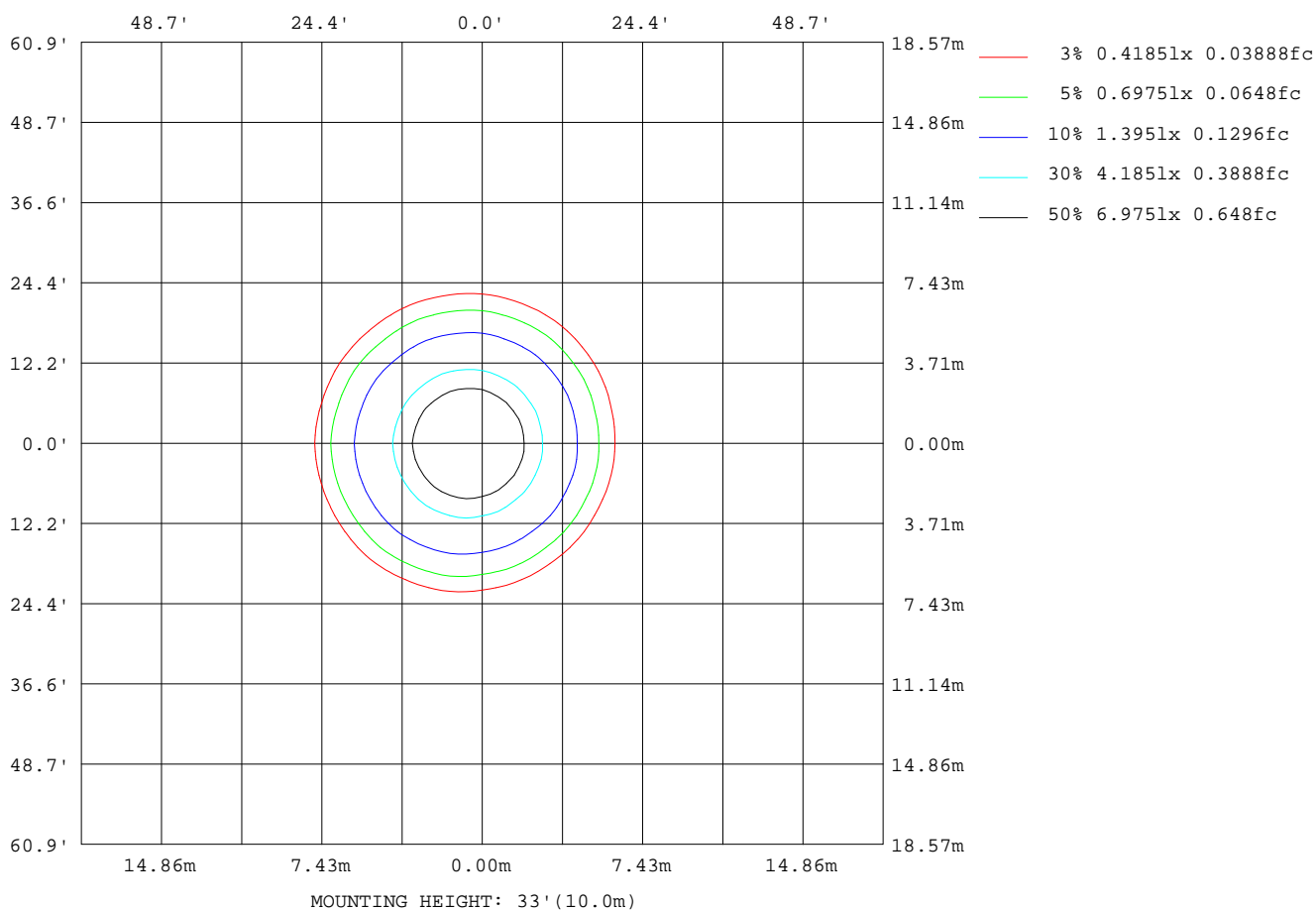
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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ISOLUX DIAGRAM

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LED Avg.L Report

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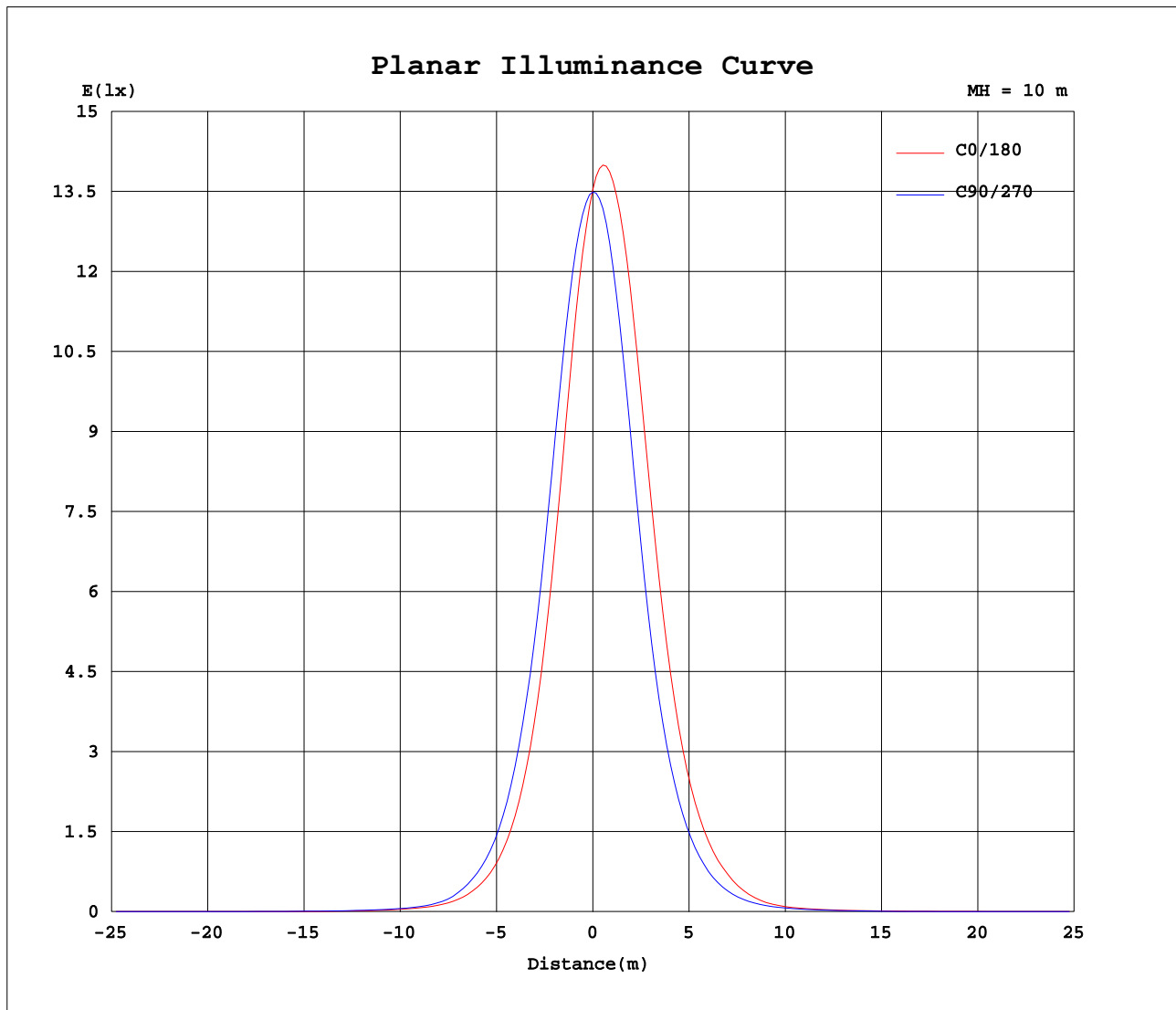
AvgL	cd/m2
L_0~180 (65) av	978
L_0~180 (75) av	306
L_0~180 (85) av	103
L_90~270 (65) av	752
L_90~270 (75) av	229
L_90~270 (85) av	97
L_45 (65) av	832
L_45 (75) av	264
L_45 (85) av	100

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason Long
Test Date:2019-05-18

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity:56%
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 Long
Test Date: 2019-05-18

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity: 56%
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:56%
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:56%
Test Distance:5.850m [K=1.0000]
Remarks:

```