

LED Recessed Ground Light EYE S-3040



Light Output Ratio:	100.0%	
Luminaire Power:	1.948 W	
SHR Nominal:	0.50	Calculated using the TM5
SHR Maximum:	0.65	fine grid method.

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Cao Chengpei
Test Date: 2019-01-12

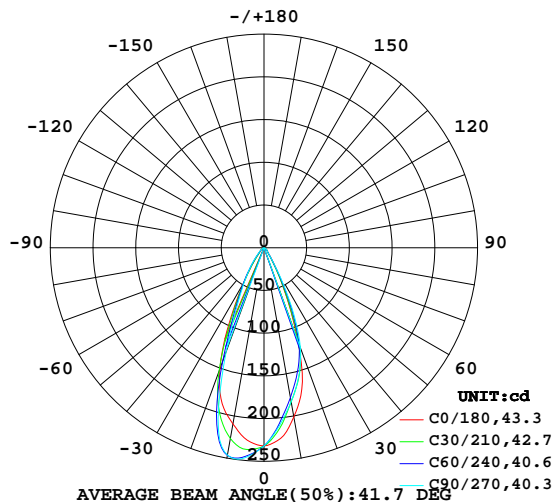
γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.288
Humidity: 53.0%
Test Distance: 5.850m [K=1.0000]
Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

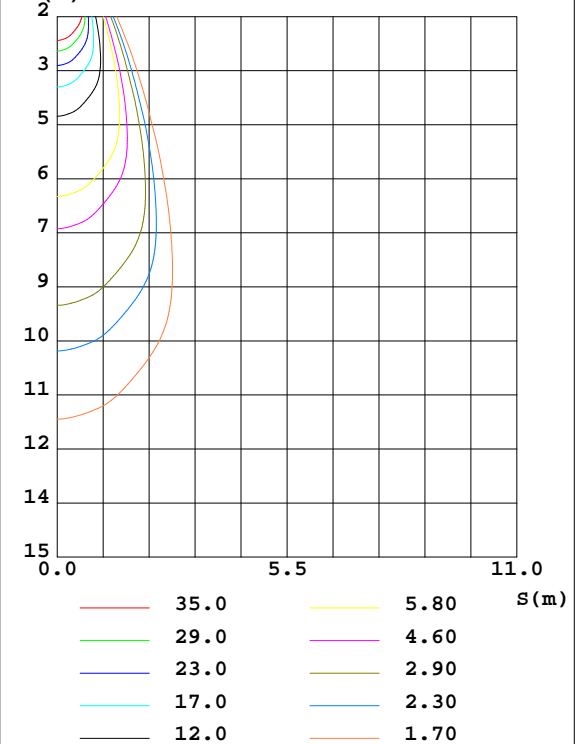
Test:U:24.00V I:0.0812A P:1.948W PF:1.000 Freq:0Hz Lamp Flux:130.568x1 lm		
NAME: EYE S-3040	TYPE: Recessed Ground Light	SERIAL No.:
SPEC.: 3000K	DIM.: L55mm*W55mm*H70mm	
MFR.: NEKO LIGHTING AG		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 67.04 lm/W			
MODEL	CREE-3000K	I _{max} (cd)	249.4	S/MH(C0/180)	0.70
NOMINAL POWER(W)	2.0	LOR(%)	100.0	S/MH(C90/270)	0.65
RATED VOLTAGE(V)	24.0	TOTAL FLUX(lm)	130.57	η UP,DN(C0-180)	0.0,48.0
NOMINAL FLUX(lm)	130.568	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,52.0
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	0.50
TEST VOLTAGE(V)	24.0	η down(%)	100.0	CIBSE SHR MAX	0.65

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	201.0	181.9	183.1	223.9	209.4	232.5	246.5	206.8	0- 10	21.24	21.24	16.3,16.3
20	116.4	121.2	124.5	152.7	150.7	147.4	130.1	123.3	10- 20	50.10	71.34	54.6,54.6
30	28.91	28.77	32.36	48.14	47.97	46.54	45.78	31.69	20- 30	35.86	107.2	82.1,82.1
40	7.862	6.920	7.137	11.74	12.90	11.20	15.71	7.953	30- 40	13.06	120.3	92.1,92.1
50	4.706	4.502	4.413	5.547	5.224	5.480	5.880	4.746	40- 50	5.499	125.8	96.3,96.3
60	2.141	2.113	2.154	2.590	2.604	2.750	2.465	2.029	50- 60	3.294	129.1	98.8,98.8
70	0.6293	0.5450	0.4538	0.6553	0.8146	0.6838	0.4391	0.5049	60- 70	1.280	130.3	99.8,99.8
80	0.0769	0.0124	0.0272	0.0130	0.1187	0.0188	0	0.0196	70- 80	0.2257	130.6	100,100
90	0.0043	0.0042	0.0021	0.0022	0.0021	0	0	0	80- 90	0.0089	130.6	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): 123.38 lm

%lum = 94.5%

%lamp = 94.5%

Conical surface Flux(120deg): 129.05 lm

%lum = 98.8%

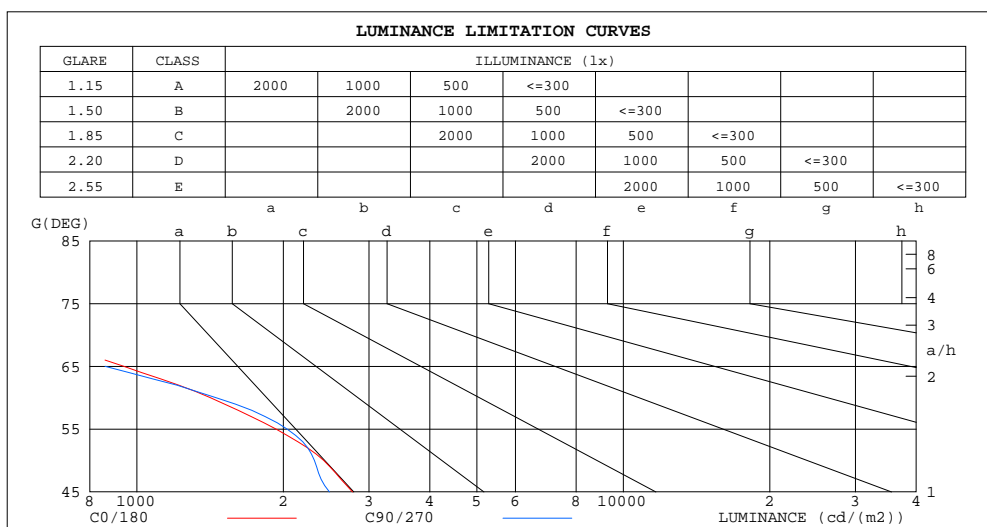
%lamp = 98.8%

C Range: 0 - 360DEG
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γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.288
Humidity:53.0%
Test Distance:5.850m [K=1.0000]
Remarks:

LUMINANCE LIMITATION CURVES

Test:U:24.00V I:0.0812A P:1.948W PF:1.000 Freq:0Hz Lamp Flux:130.568x1 lm		
NAME: EYE S-3040	TYPE: Recessed Ground Light	SERIAL No.:
SPEC.: 3000K	DIM.: L55mm*W55mm*H70mm	
MFR.: NEKO LIGHTING AG		



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	122	24
80	146	53
75	376	85
70	608	448
65	940	860
60	1416	1454
55	1932	2036
50	2421	2317
45	2774	2488

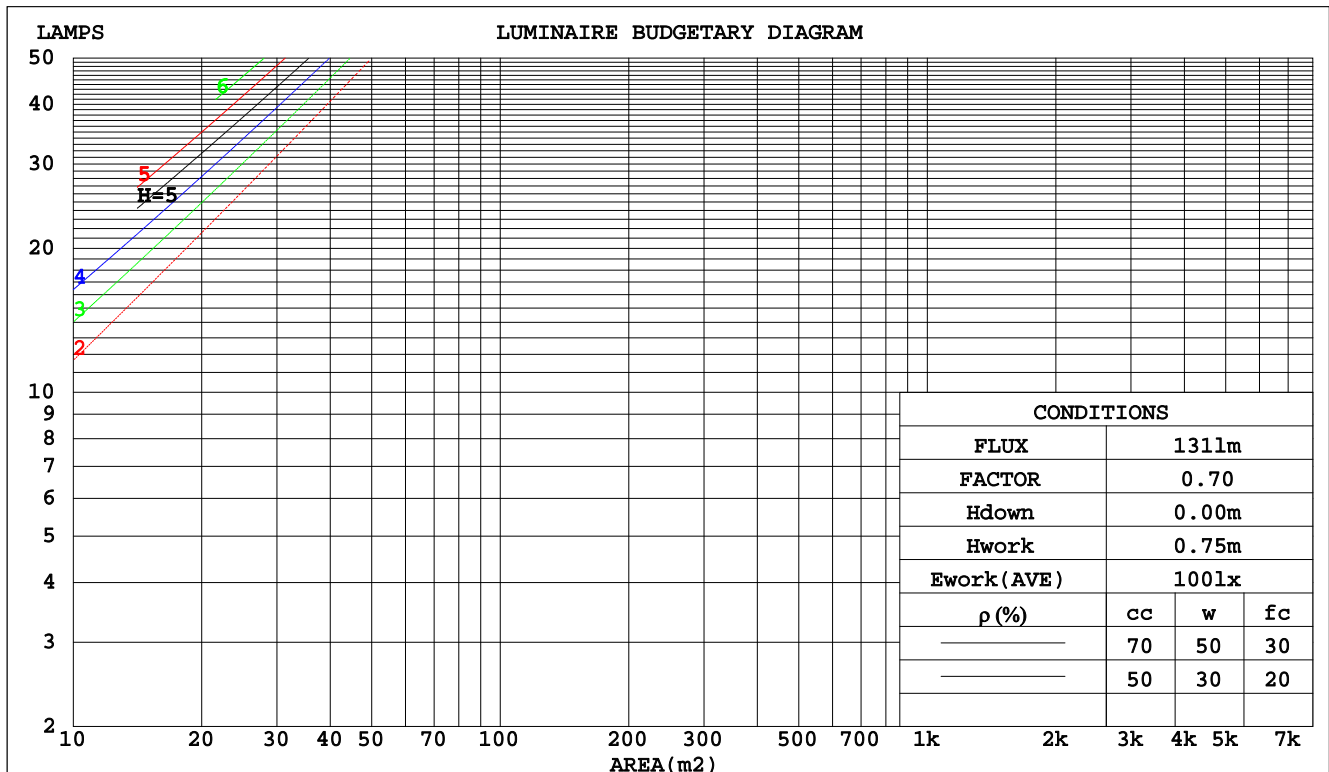
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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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SPEC.: 3000K	DIM.: L55mm*W55mm*H70mm	
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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	.00
1.0	1.11	1.09	1.07	1.09	1.07	1.05	1.05	1.03	1.02	1.01	1.00	.99	.98	.97	.96	.94
2.0	1.04	1.01	.97	1.03	.99	.96	.99	.97	.94	.96	.94	.92	.94	.92	.90	.89
3.0	.98	.93	.90	.97	.92	.89	.94	.91	.88	.92	.89	.86	.89	.87	.85	.83
4.0	.92	.87	.83	.91	.87	.83	.89	.85	.82	.87	.84	.81	.85	.83	.80	.79
5.0	.87	.82	.78	.86	.82	.78	.85	.80	.77	.83	.79	.76	.82	.78	.76	.74
6.0	.83	.77	.74	.82	.77	.73	.81	.76	.73	.79	.75	.72	.78	.75	.72	.71
7.0	.79	.73	.70	.78	.73	.69	.77	.72	.69	.76	.72	.69	.75	.71	.68	.67
8.0	.75	.70	.66	.74	.69	.66	.73	.69	.66	.72	.68	.65	.72	.68	.65	.64
9.0	.72	.66	.63	.71	.66	.63	.70	.66	.62	.69	.65	.62	.69	.65	.62	.61
10.0	.68	.63	.60	.68	.63	.60	.67	.63	.60	.67	.62	.59	.66	.62	.59	.58



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Humidity: 53.0%
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WEC AND CCEC

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pcc	80%			70%			50%			30%			10%			0	
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0	
ρfc	20%			20%			20%			20%			20%			0	
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)										
0.0																	
1.0	.167	.095	.030	.161	.092	.029	.148	.085	.027	.136	.079	.025	.126	.073	.024		
2.0	.159	.087	.027	.153	.084	.026	.143	.079	.025	.133	.075	.023	.124	.070	.022		
3.0	.151	.080	.024	.146	.078	.024	.137	.074	.023	.129	.071	.022	.121	.067	.021		
4.0	.143	.074	.022	.139	.073	.021	.131	.069	.021	.124	.066	.020	.117	.064	.019		
5.0	.135	.069	.020	.132	.068	.020	.125	.065	.019	.119	.063	.019	.113	.061	.018		
6.0	.129	.064	.018	.126	.063	.018	.120	.061	.018	.114	.059	.017	.109	.058	.017		
7.0	.123	.061	.017	.120	.060	.017	.115	.058	.017	.110	.056	.016	.106	.055	.016		
8.0	.117	.057	.016	.115	.056	.016	.110	.055	.016	.106	.054	.015	.102	.052	.015		
9.0	.112	.054	.015	.110	.054	.015	.106	.052	.015	.102	.051	.015	.098	.050	.014		
10.0	.107	.051	.014	.105	.051	.014	.102	.050	.014	.098	.049	.014	.095	.048	.014		

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	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	.146	.135	.125	.100	.093	.087	.057	.054	.050	.018	.017	.016	
2.0	.155	.133	.114	.132	.114	.099	.091	.079	.069	.052	.046	.040	.017	.015	.013	
3.0	.141	.113	.091	.121	.098	.079	.083	.068	.055	.048	.040	.033	.015	.013	.011	
4.0	.131	.099	.074	.112	.085	.064	.077	.059	.045	.045	.035	.027	.014	.011	.009	
5.0	.121	.087	.061	.104	.075	.053	.072	.052	.038	.042	.031	.022	.013	.010	.007	
6.0	.113	.077	.051	.098	.067	.045	.067	.047	.032	.039	.028	.019	.013	.009	.006	
7.0	.107	.070	.044	.092	.060	.038	.063	.042	.027	.037	.025	.016	.012	.008	.005	
8.0	.101	.063	.037	.087	.055	.033	.060	.038	.023	.035	.023	.014	.011	.007	.005	
9.0	.095	.058	.033	.082	.050	.028	.057	.035	.020	.033	.021	.012	.011	.007	.004	
10.0	.091	.053	.029	.078	.046	.025	.054	.033	.018	.032	.019	.011	.010	.006	.003	

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
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γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.288
Humidity: 53.0%
Test Distance: 5.850m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

Test:U:24.00V I:0.0812A P:1.948W PF:1.000 Freq:0Hz Lamp Flux:130.568x1 lm											
NAME: EYE S-3040					TYPE:Recessed Ground Light			SERIAL No.:			
SPEC.:3000K					DIM.: L55mm*W55mm*H70mm						
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		16.0	16.9	16.2	17.0	17.2	16.4	17.3	16.6	17.4	17.6
3H		16.2	17.0	16.4	17.2	17.4	16.5	17.3	16.7	17.4	17.6
4H		16.2	16.9	16.4	17.1	17.3	16.4	17.1	16.6	17.3	17.6
6H		16.1	16.8	16.4	17.0	17.3	16.3	17.0	16.6	17.2	17.5
8H		16.0	16.7	16.4	17.0	17.2	16.2	16.9	16.5	17.2	17.4
12H		16.0	16.7	16.3	16.9	17.2	16.2	16.8	16.5	17.1	17.4
4H 2H		16.1	16.9	16.4	17.1	17.3	16.5	17.2	16.8	17.5	17.7
3H		16.3	17.0	16.6	17.2	17.5	16.5	17.2	16.8	17.5	17.7
4H		16.3	16.9	16.7	17.2	17.5	16.4	17.0	16.8	17.3	17.6
6H		16.2	16.8	16.6	17.1	17.4	16.3	16.9	16.7	17.2	17.5
8H		16.2	16.7	16.6	17.0	17.4	16.3	16.8	16.7	17.1	17.5
12H		16.2	16.6	16.6	17.0	17.4	16.2	16.7	16.7	17.1	17.4
8H 4H		16.2	16.7	16.6	17.0	17.4	16.3	16.8	16.7	17.2	17.5
6H		16.1	16.5	16.5	16.9	17.3	16.2	16.6	16.6	17.0	17.4
8H		16.1	16.4	16.5	16.8	17.3	16.2	16.5	16.6	16.9	17.4
12H		16.0	16.3	16.5	16.8	17.2	16.1	16.4	16.6	16.8	17.3
12H 4H		16.1	16.6	16.5	17.0	17.3	16.3	16.7	16.7	17.1	17.5
6H		16.1	16.4	16.5	16.8	17.3	16.2	16.5	16.6	16.9	17.4
8H		16.0	16.3	16.5	16.8	17.2	16.1	16.4	16.6	16.8	17.3
Variations with the observer position at spacings:											
S = 1.0H		+ 1.3 / - 1.3				+ 1.1 / - 1.3					
1.5H		+ 1.4 / - 0.9				+ 1.1 / - 1.1					
2.0H		+ 1.7 / - 2.6				+ 1.7 / - 3.0					

CIE Pub.117, 130.6 lm Total Lamp Luminous Flux Correct ($8\log(F/F_0) = -7.1$)

C Range: 0 - 360DEG
C Interval: 15.0DEG
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γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.288
Humidity: 53.0%
Test Distance: 5.850m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:24.00V I:0.0812A P:1.948W PF:1.000 Freq:0Hz Lamp Flux:130.568x1 lm		
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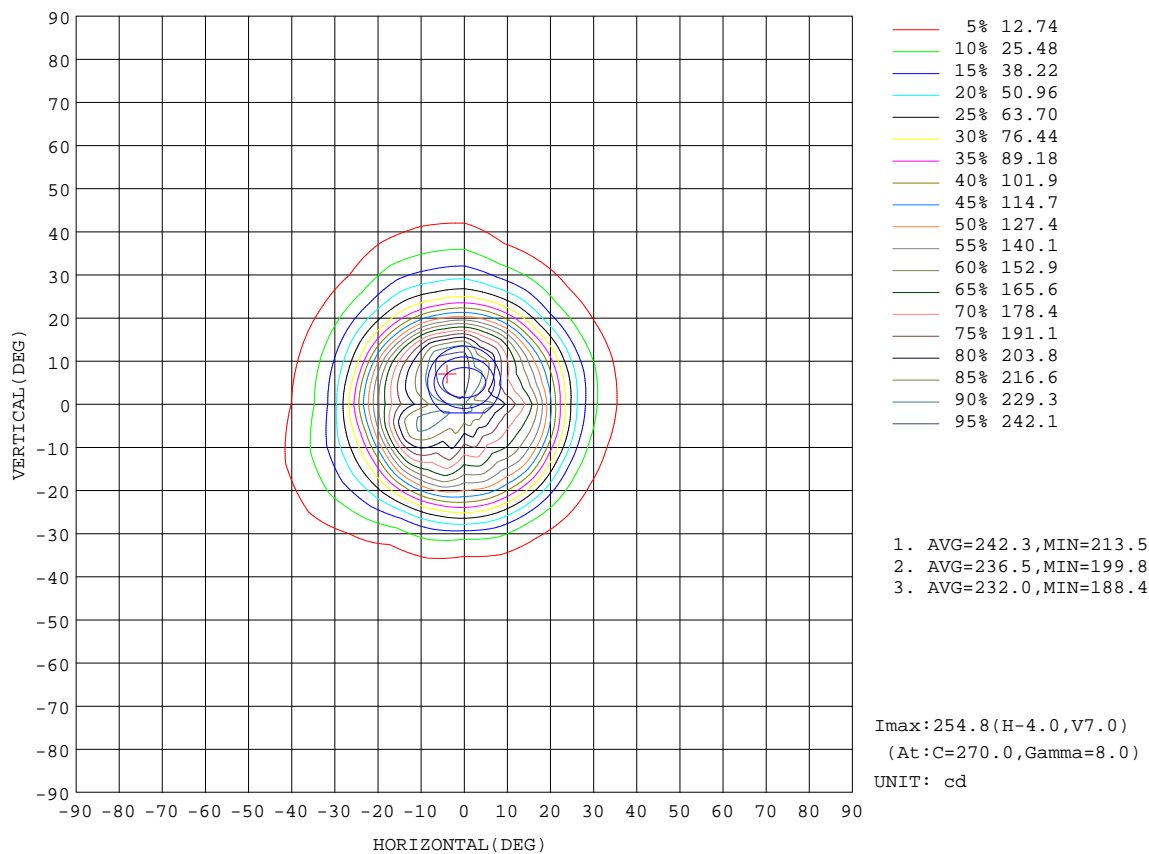
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	87	80	76	86	80	76	85	79	76	72
0.80	94	88	84	93	88	84	92	87	84	80
1.00	99	93	89	98	93	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	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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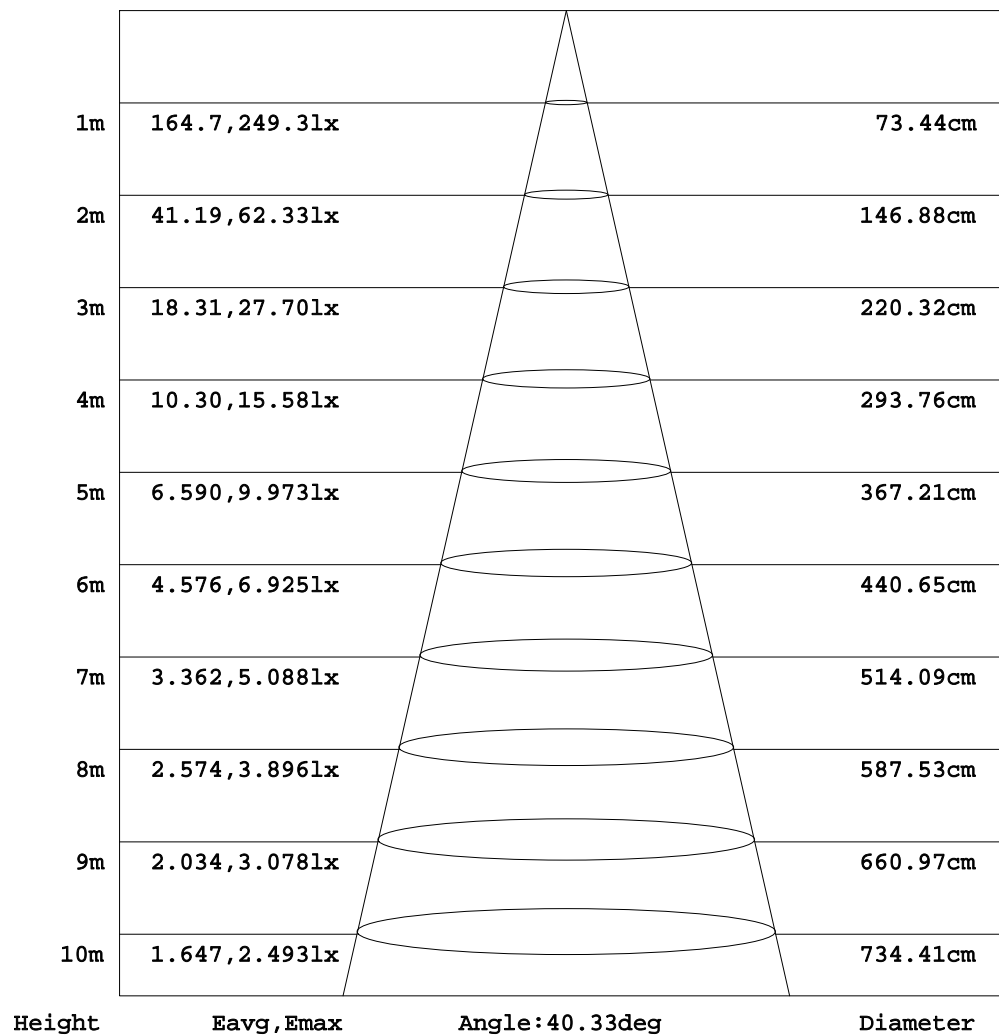
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AAI Figure

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Flux out: 76.26 lm



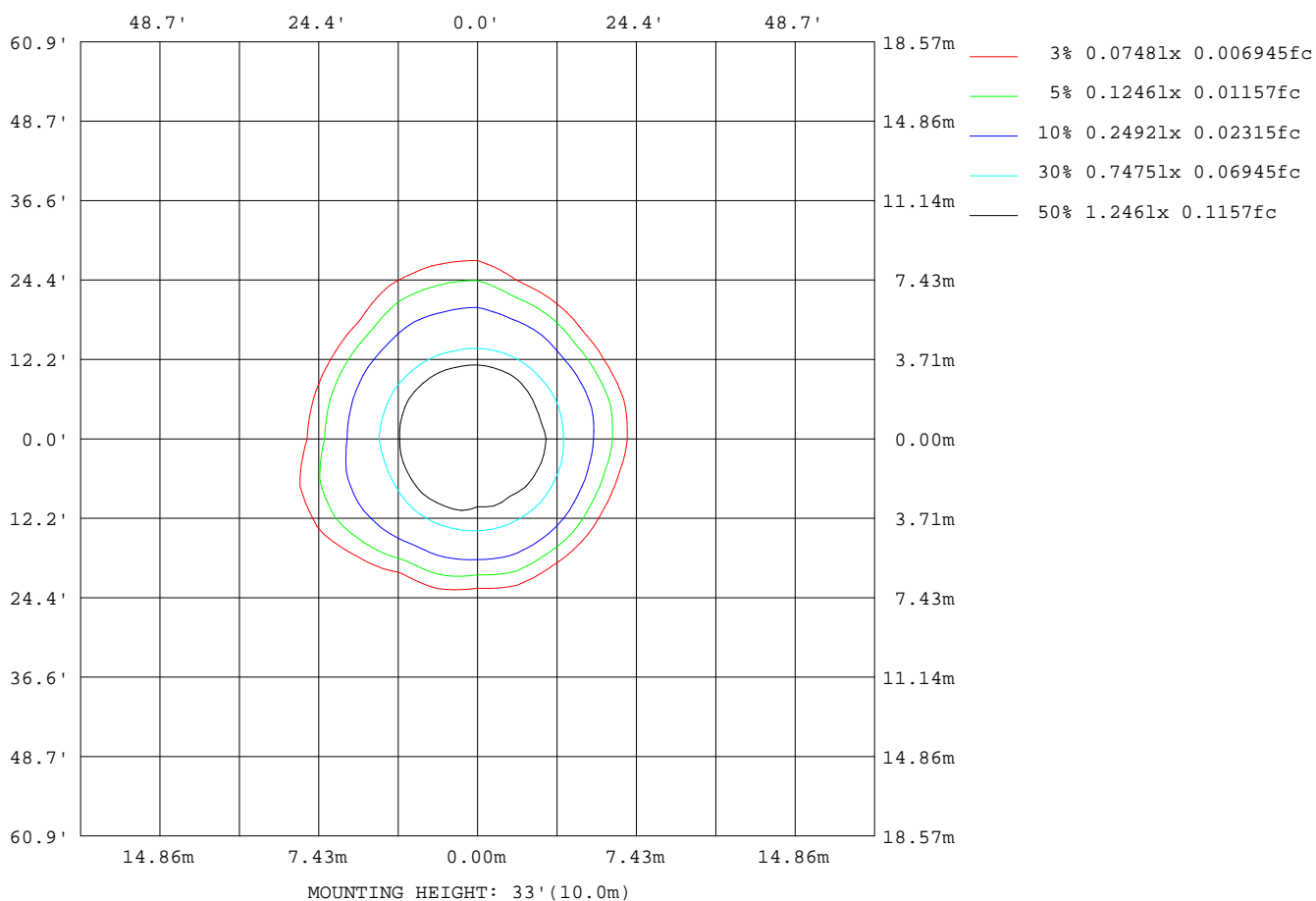
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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ISOLUX DIAGRAM

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LED Avg.L Report

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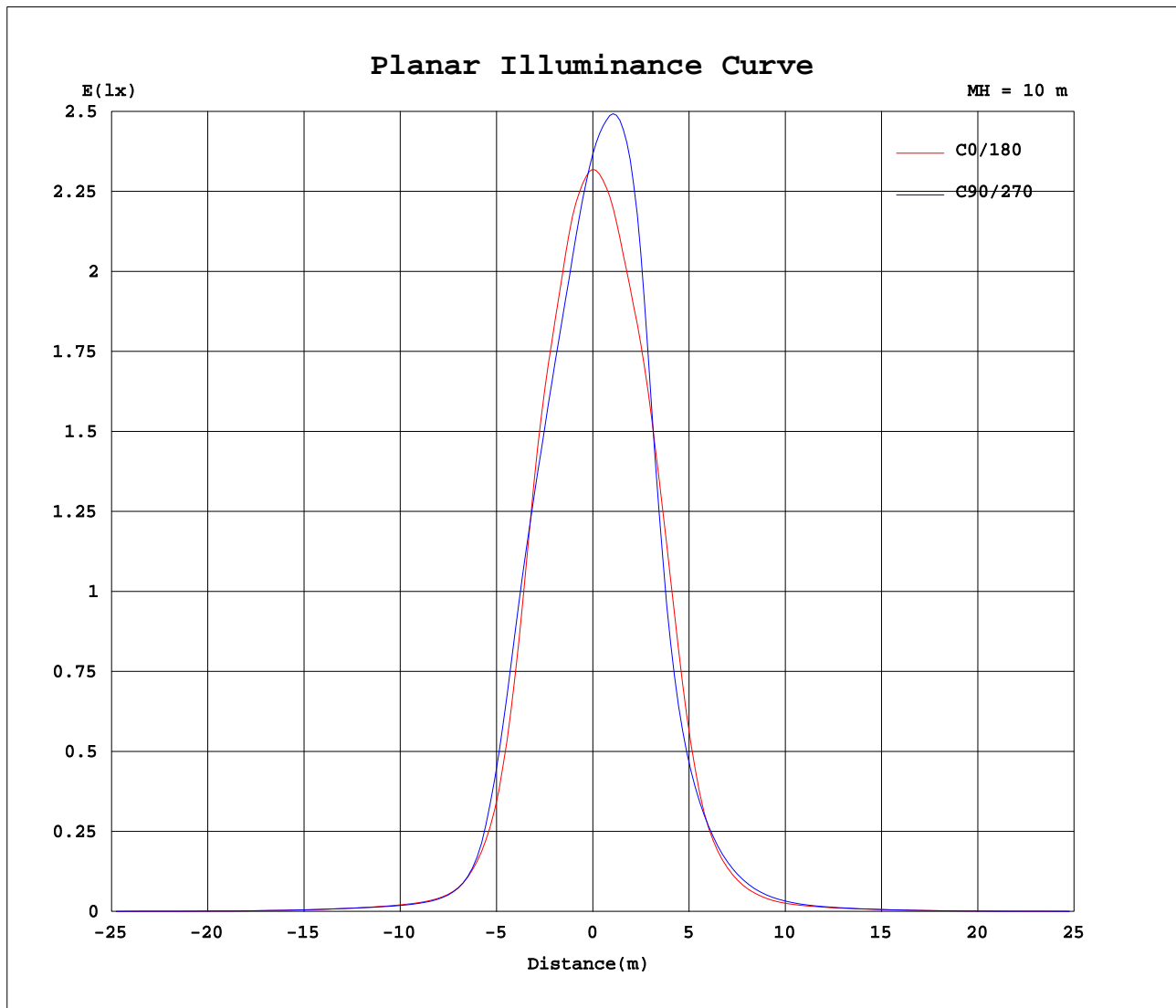
AvgL	cd/m2
L_0~180(65)av	1063
L_0~180(75)av	431
L_0~180(85)av	81
L_90~270(65)av	869
L_90~270(75)av	65
L_90~270(85)av	12
L_45(65)av	1003
L_45(75)av	108
L_45(85)av	10

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Cao Chengpei
Test Date:2019-01-12

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.288
Humidity:53.0%
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: Cao Chengpei
Test Date: 2019-01-12

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.288
Humidity: 53.0%
Test Distance: 5.850m [K=1.0000]
Remarks:

```

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.288
Humidity:53.0%
Test Distance:5.850m [K=1.0000]
Remarks:

```

```

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.288
Humidity:53.0%
Test Distance:5.850m [K=1.0000]
Remarks:

```