

LED Recessed Ground Light EYE R-3025



Light Output Ratio:	100.0%	
Luminaire Power:	1.948 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: Cao Chengpei
Test Date: 2019-01-12

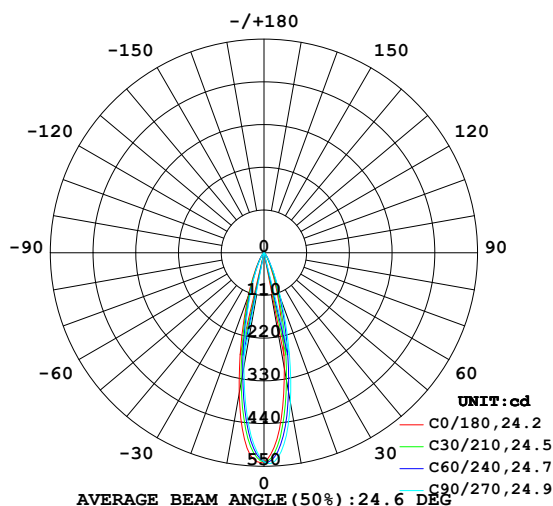
γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.288
Humidity: 53.0%
Test Distance: 5.850m [K=1.0000]
Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

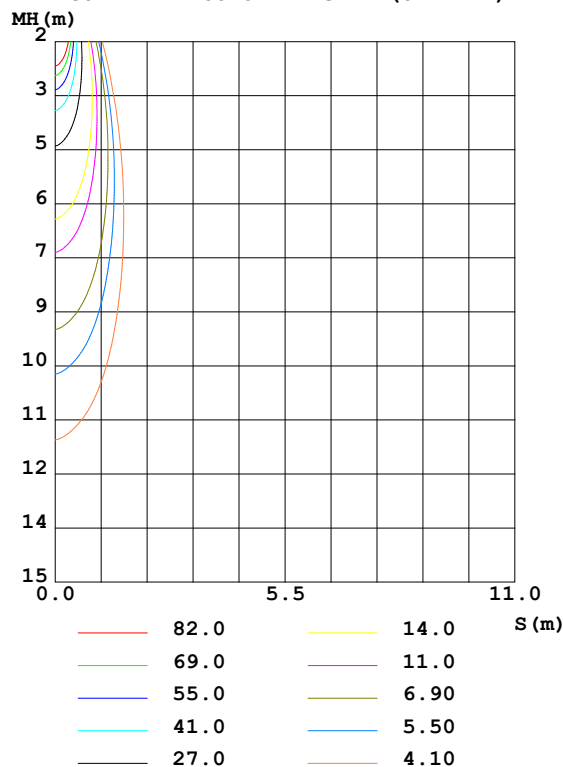
Test:U:24.00V I:0.0812A P:1.948W PF:1.000 Freq:0Hz Lamp Flux:139.251x1 lm		
NAME: EYE R-3025	TYPE: Recessed Ground Light	SERIAL No.:
SPEC.: 3000K	DIM.: ϕ 55mm*H70mm	
MFR.: NEKO LIGHTING AG		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 71.50 lm/W			
MODEL	CREE-3000K	I _{max} (cd)	549.9	S/MH (C0/180)	0.44
NOMINAL POWER (W)	2.0	LOR (%)	100.0	S/MH (C90/270)	0.37
RATED VOLTAGE (V)	24.0	TOTAL FLUX (lm)	139.25	η UP, DN (C0-180)	0.0, 54.0
NOMINAL FLUX (lm)	139.251	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 46.0
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	0.00
TEST VOLTAGE (V)	24.0	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

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	301.3	351.0	391.9	408.9	368.3	326.5	299.3	289.5	0- 10	41.31	41.31	29.7,29.7
20	85.40	111.3	128.9	142.3	120.4	98.59	92.29	86.36	10- 20	56.20	97.51	70,70
30	22.31	30.15	31.29	35.39	31.02	23.96	23.74	22.11	20- 30	26.48	124.0	89,89
40	6.737	9.153	8.222	8.301	8.292	6.834	6.963	6.513	30- 40	9.506	133.5	95.9,95.9
50	2.435	3.003	2.847	2.883	2.682	2.409	2.590	2.342	40- 50	3.645	137.1	98.5,98.5
60	0.7503	0.8873	0.9801	1.008	1.011	0.9689	0.9730	0.8458	50- 60	1.506	138.6	99.6,99.6
70	0.2445	0.1970	0.1407	0.2261	0.3167	0.2545	0.1545	0.2378	60- 70	0.5087	139.2	99.9,99.9
80	0.0355	0.0021	0.0086	0.0022	0.0416	0.0190	0.0021	0.0175	70- 80	0.0893	139.2	100,100
90	0.0021	0.0021	0.0042	0.0022	0.0021	0.0021	0.0021	0.0022	80- 90	0.0053	139.3	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): 135.71 lm

%lum = 97.5%

%lamp = 97.5%

Conical surface Flux(120deg): 138.65 lm

%lum = 99.6%

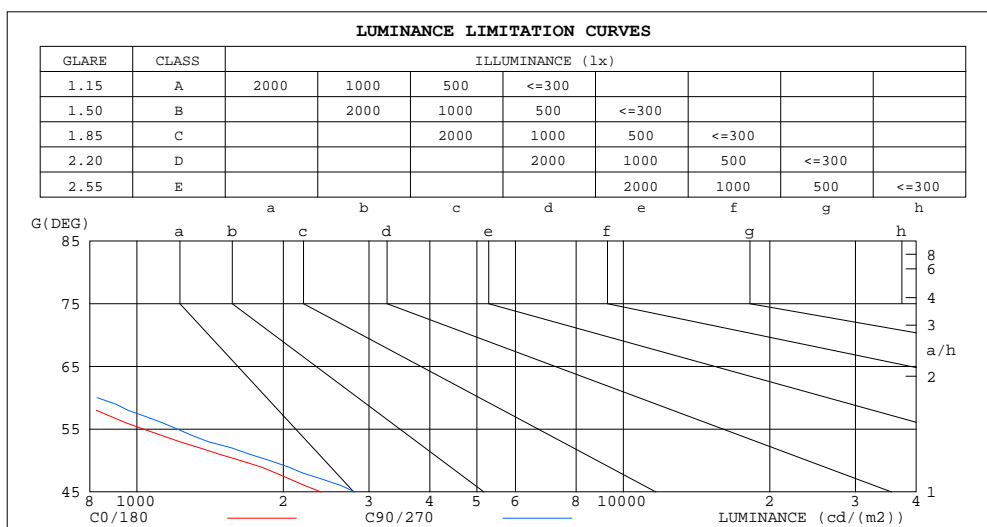
%lamp = 99.6%

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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:

LUMINANCE LIMITATION CURVES

Test:U:24.00V I:0.0812A P:1.948W PF:1.000 Freq:0Hz Lamp Flux:139.25lx1 lm		
NAME: EYE R-3025	TYPE: Recessed Ground Light	SERIAL No.:
SPEC.: 3000K	DIM.: $\phi 55\text{mm} \times H70\text{mm}$	
MFR.: NEKO LIGHTING AG		



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	62	21
80	88	21
75	181	45
70	307	174
65	451	445
60	645	828
55	1031	1210
50	1628	1871
45	2389	2808

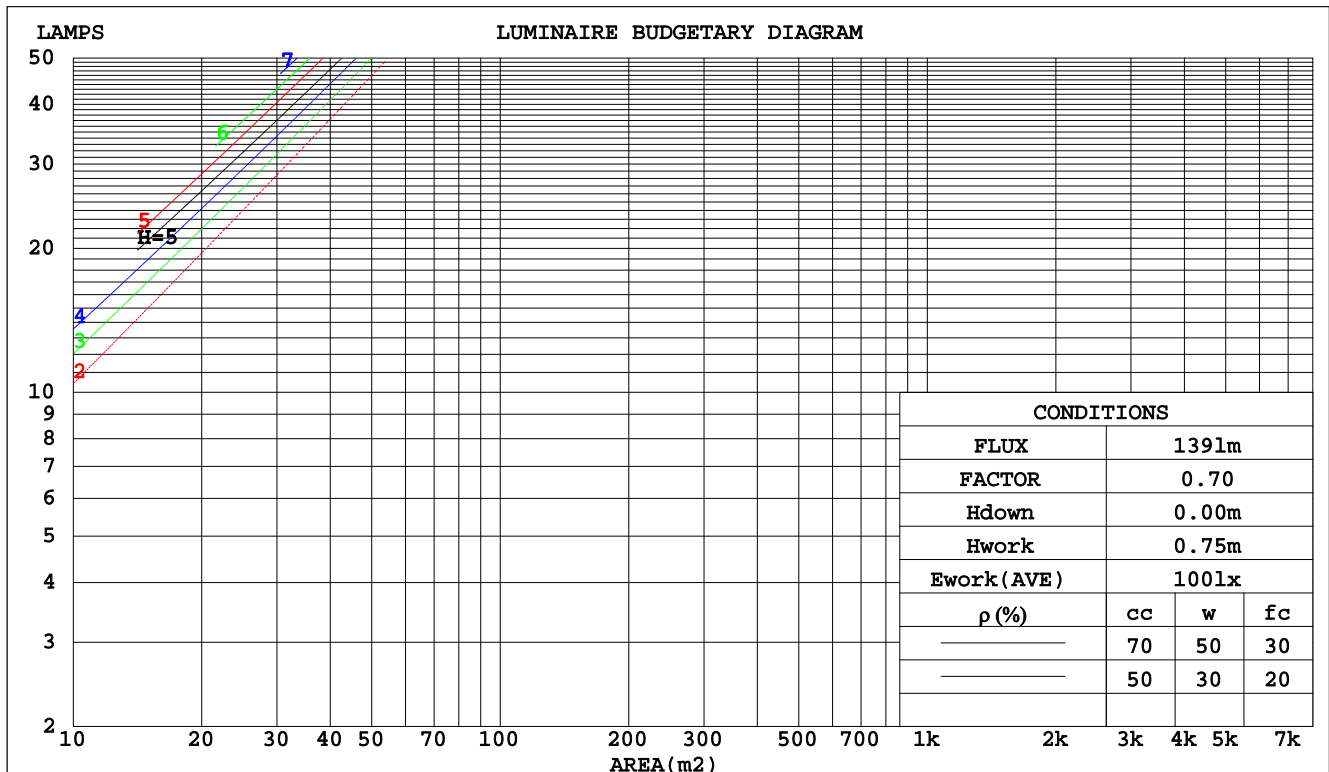
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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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SPEC.: 3000K	DIM.: $\phi 55\text{mm} \times H70\text{mm}$	
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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	1.07	1.06	1.05	1.03	1.03	1.01	1.00	.99	.98	.97	.96
2.0	1.06	1.03	1.00	1.05	1.02	.99	1.02	.99	.97	.99	.97	.95	.96	.94	.93	.92
3.0	1.01	.97	.94	.90	.96	.93	.97	.94	.92	.95	.93	.90	.93	.91	.89	.88
4.0	.97	.92	.89	.96	.91	.88	.93	.90	.87	.92	.89	.86	.90	.87	.85	.84
5.0	.92	.88	.85	.92	.87	.84	.90	.86	.83	.88	.85	.83	.87	.84	.82	.81
6.0	.89	.84	.81	.88	.84	.81	.87	.83	.80	.85	.82	.79	.84	.81	.79	.78
7.0	.85	.81	.77	.85	.80	.77	.84	.80	.77	.83	.79	.77	.82	.78	.76	.75
8.0	.82	.78	.75	.82	.77	.74	.81	.77	.74	.80	.76	.74	.79	.76	.74	.72
9.0	.79	.75	.72	.79	.75	.72	.78	.74	.72	.77	.74	.71	.77	.73	.71	.70
10.0	.77	.72	.69	.76	.72	.69	.76	.72	.69	.75	.72	.69	.74	.71	.69	.68



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WEC AND CCEC

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SPEC.: 3000K	DIM.: ϕ 55mm*H70mm	
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	.148	.084	.027	.141	.080	.026	.129	.074	.024	.117	.068	.022	.107	.062	.020		
2.0	.138	.076	.023	.133	.073	.023	.123	.068	.021	.113	.063	.020	.104	.059	.019		
3.0	.130	.069	.021	.125	.067	.020	.117	.063	.019	.109	.060	.018	.101	.056	.017		
4.0	.122	.064	.019	.119	.062	.018	.111	.059	.018	.104	.056	.017	.098	.053	.016		
5.0	.116	.059	.017	.112	.058	.017	.106	.055	.016	.100	.053	.016	.095	.051	.015		
6.0	.110	.055	.016	.107	.054	.016	.101	.052	.015	.096	.050	.015	.092	.048	.014		
7.0	.104	.052	.015	.102	.051	.014	.097	.049	.014	.093	.048	.014	.088	.046	.014		
8.0	.100	.049	.014	.097	.048	.014	.093	.047	.013	.089	.045	.013	.086	.044	.013		
9.0	.095	.046	.013	.093	.045	.013	.090	.044	.013	.086	.043	.012	.083	.042	.012		
10.0	.091	.044	.012	.089	.043	.012	.086	.042	.012	.083	.041	.012	.080	.040	.012		

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	.169	.158	.147	.145	.135	.127	.099	.093	.088	.057	.054	.051	.018	.017	.016	
2.0	.152	.133	.117	.130	.114	.101	.089	.079	.070	.051	.046	.041	.016	.015	.013	
3.0	.138	.113	.094	.118	.098	.082	.081	.068	.057	.047	.040	.034	.015	.013	.011	
4.0	.126	.098	.077	.108	.085	.067	.074	.059	.047	.043	.035	.028	.014	.011	.009	
5.0	.116	.086	.064	.099	.074	.056	.068	.052	.039	.040	.031	.023	.013	.010	.008	
6.0	.107	.076	.054	.092	.066	.047	.063	.046	.033	.037	.027	.020	.012	.009	.007	
7.0	.100	.068	.046	.086	.059	.040	.059	.041	.028	.034	.024	.017	.011	.008	.006	
8.0	.093	.062	.040	.080	.053	.035	.056	.037	.025	.032	.022	.015	.010	.007	.005	
9.0	.088	.056	.035	.076	.049	.030	.052	.034	.021	.031	.020	.013	.010	.007	.004	
10.0	.083	.051	.030	.072	.045	.026	.050	.031	.019	.029	.019	.011	.009	.006	.004	

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:

UGR(Unified Glare Rating) Table

Test:U:24.00V I:0.0812A P:1.948W PF:1.000 Freq:0Hz Lamp Flux:139.25lx1 lm										
NAME: EYE R-3025					TYPE: Recessed Ground Light			SERIAL No.:		
SPEC.: 3000K					DIM.: $\phi 55\text{mm} \times H70\text{mm}$					
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	13.7	14.5	13.9	14.6	14.8	16.3	17.0	16.5	17.2	17.3
3H	13.7	14.4	13.9	14.6	14.7	16.2	16.8	16.4	17.0	17.2
4H	13.6	14.3	13.9	14.5	14.7	16.1	16.7	16.3	16.9	17.2
6H	13.5	14.1	13.8	14.4	14.6	16.0	16.6	16.3	16.8	17.1
8H	13.5	14.1	13.8	14.3	14.6	16.0	16.5	16.3	16.8	17.0
12H	13.5	14.0	13.8	14.3	14.5	15.9	16.5	16.2	16.7	17.0
4H 2H	13.7	14.3	13.9	14.5	14.7	16.1	16.8	16.4	17.0	17.2
3H	13.6	14.2	13.9	14.4	14.7	16.0	16.5	16.3	16.8	17.1
4H	13.6	14.1	13.9	14.4	14.7	15.9	16.4	16.2	16.7	17.0
6H	13.5	13.9	13.8	14.2	14.6	15.8	16.2	16.2	16.6	16.9
8H	13.4	13.8	13.8	14.2	14.5	15.7	16.2	16.1	16.5	16.9
12H	13.4	13.7	13.8	14.1	14.5	15.7	16.1	16.1	16.4	16.8
8H 4H	13.4	13.8	13.8	14.2	14.5	15.7	16.2	16.1	16.5	16.9
6H	13.3	13.7	13.7	14.0	14.5	15.6	16.0	16.1	16.4	16.8
8H	13.2	13.6	13.7	14.0	14.4	15.6	15.9	16.0	16.3	16.7
12H	13.2	13.5	13.7	13.9	14.4	15.5	15.8	16.0	16.2	16.7
12H 4H	13.4	13.7	13.8	14.1	14.5	15.7	16.1	16.1	16.4	16.8
6H	13.2	13.6	13.7	14.0	14.4	15.6	15.9	16.0	16.3	16.7
8H	13.2	13.4	13.6	13.9	14.4	15.5	15.8	16.0	16.2	16.7
Variations with the observer position at spacings:										
S = 1.0H	+ 2.6 / - 4.5					+ 2.6 / - 6.2				
1.5H	+ 3.6 / - 3.3					+ 3.7 / - 3.5				
2.0H	+ 4.0 / - 4.0					+ 4.7 / - 5.8				

CIE Pub.117, 139.3 lm Total Lamp Luminous Flux Correct ($8\log(F/F_0) = -6.8$)

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:

UTILIZATION FACTORS TABLE

Test:U:24.00V I:0.0812A P:1.948W PF:1.000 Freq:0Hz Lamp Flux:139.25lx1 lm		
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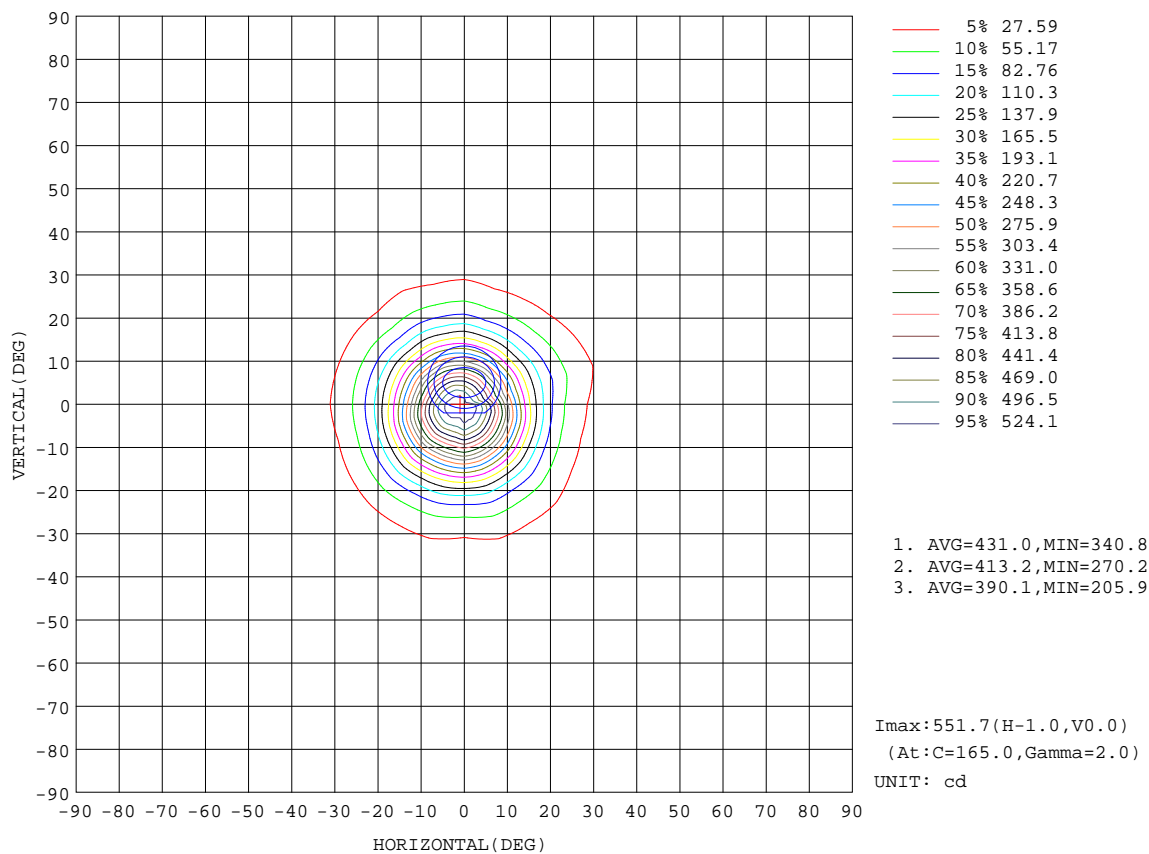
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	89	83	79	88	83	79	88	82	79	76
0.80	96	91	87	96	90	87	94	90	87	83
1.00	100	95	92	100	95	91	98	94	91	87
1.25	104	99	96	103	99	96	101	97	95	91
1.50	107	102	99	106	102	99	103	100	98	93
2.00	109	105	102	108	104	101	105	102	100	95
2.50	111	107	104	109	106	103	106	104	102	96
3.00	112	109	106	110	108	105	107	105	103	97
4.00	114	112	109	112	110	108	109	107	105	98
5.00	115	113	112	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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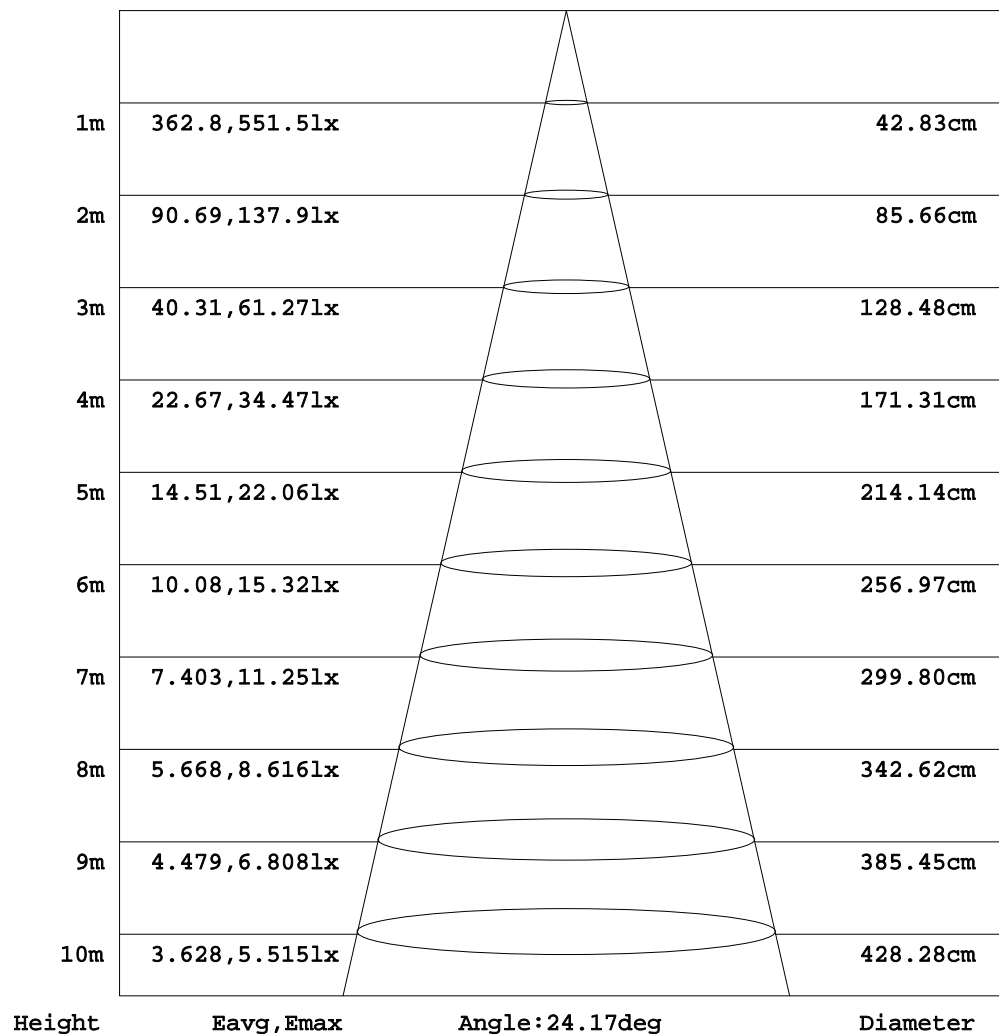
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AAI Figure

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MFR.: NEKO LIGHTING AG		

Flux out: 60.74 lm



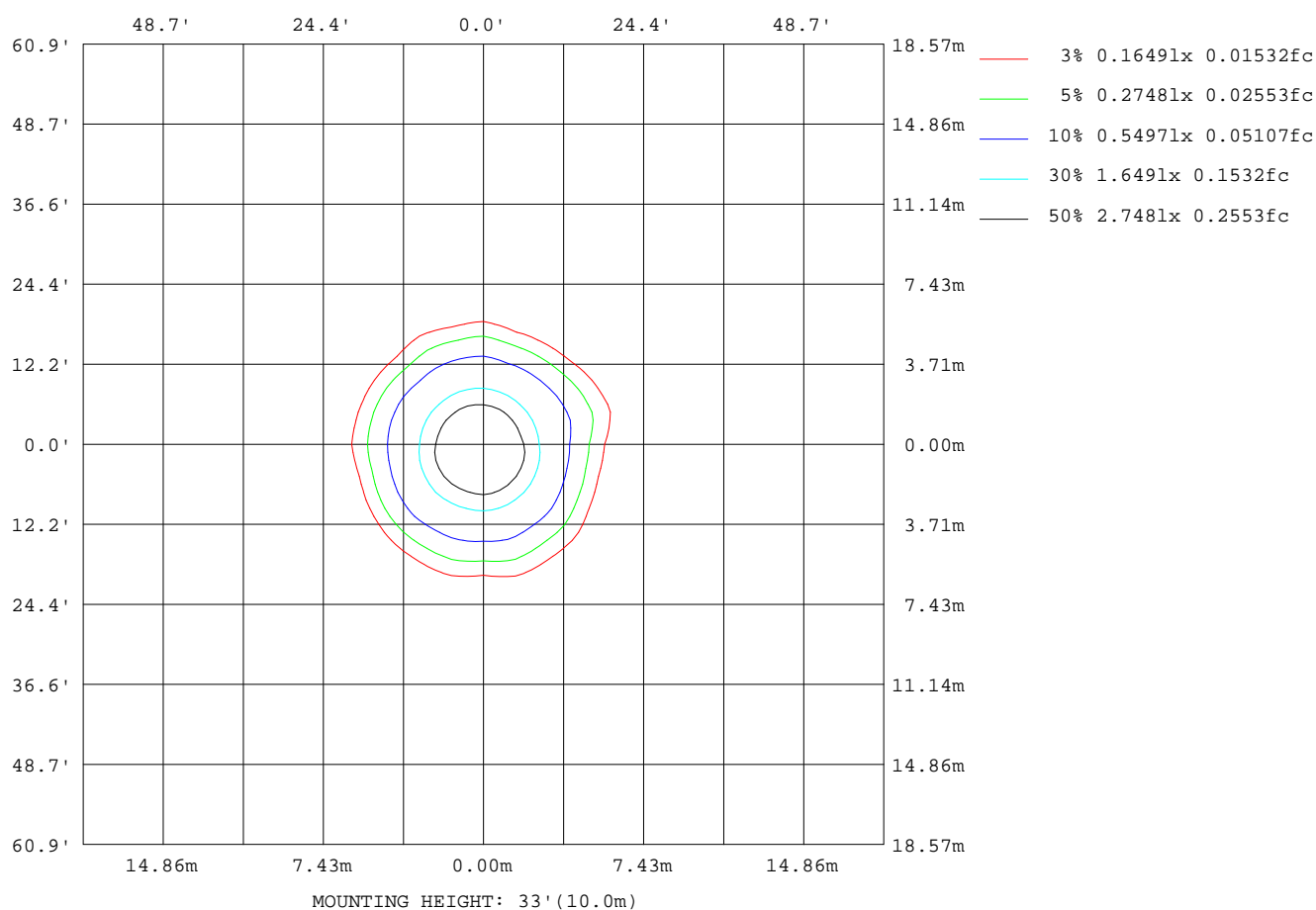
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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ISOLUX DIAGRAM

Test:U:24.00V I:0.0812A P:1.948W PF:1.000 Freq:0Hz Lamp Flux:139.25lx 1m		
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LED Avg.L Report

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MFR.: NEKO LIGHTING AG		

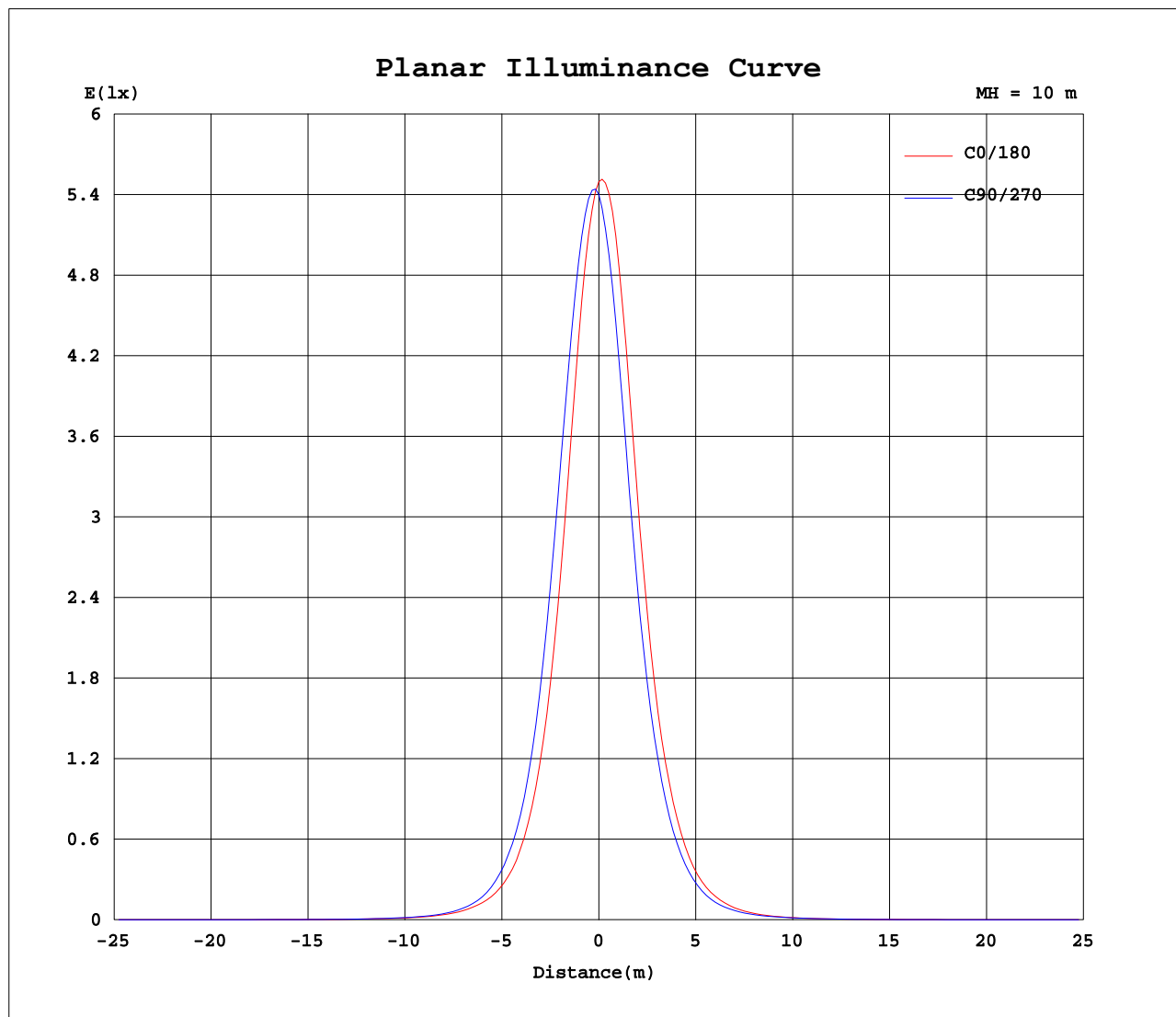
AvgL	cd/m2
L_0~180 (65) av	502
L_0~180 (75) av	214
L_0~180 (85) av	35
L_90~270 (65) av	443
L_90~270 (75) av	45
L_90~270 (85) av	15
L_45 (65) av	506
L_45 (75) av	72
L_45 (85) av	10

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



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Remarks:

```