

LED Recessed Ground Light EYE S-3015



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

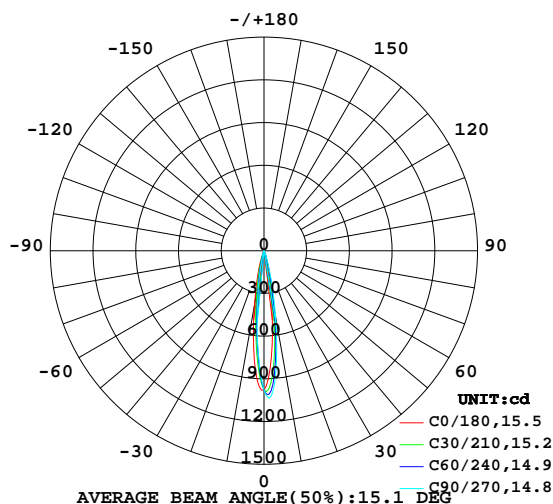
γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.288  
Humidity: 53.0%  
Test Distance: 5.850m [K=1.0000]  
Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

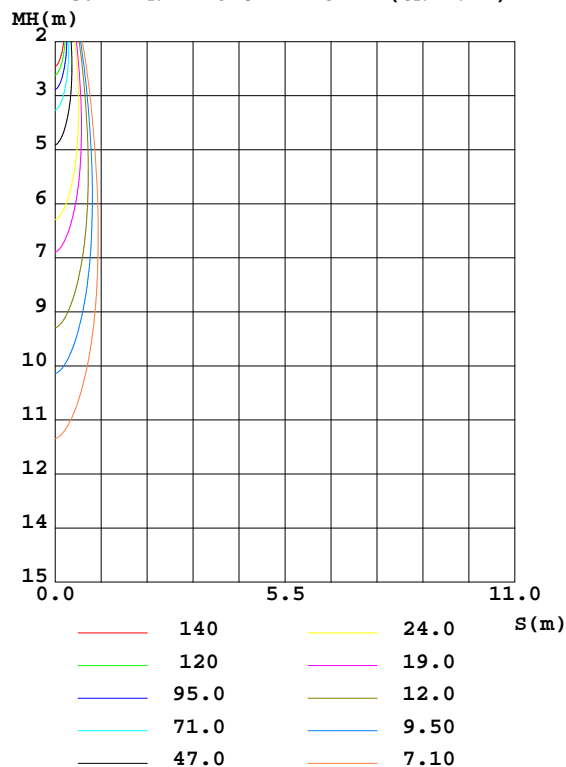
Test:U:24.00V I:0.0812A P:1.948W PF:1.000 Freq:0Hz Lamp Flux:109.984x1 lm		
NAME: EYE S-3015	TYPE: Recessed Ground Light	SERIAL No.:
SPEC.: 3000K	DIM.: L55mm*W55mm*H70mm	
MFR.: NEKO LIGHTING AG		

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 56.47 lm/W
MODEL	CREE-3000K	I <sub>max</sub> (cd)	1053	S/MH(C0/180)	0.30	
NOMINAL POWER(W)	2.0	LOR(%)	100.0	S/MH(C90/270)	0.20	
RATED VOLTAGE(V)	24.0	TOTAL FLUX(lm)	109.98	η UP, DN(C0-180)	0.0, 59.2	
NOMINAL FLUX(lm)	109.984	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.0, 40.8	
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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γ Range: 0 - 90DEG  
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Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.288  
Humidity: 53.0%  
Test Distance: 5.850m [K=1.0000]  
Remarks:

## ZONAL FLUX DIAGRAM

### ZONAL FLUX DIAGRAM:

$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	$\Phi$ zone	$\Phi$ total	%lum, lamp
10	253.4	379.4	469.1	462.1	391.9	244.9	192.7	226.7	0- 10	56.38	56.38	51.3,51.3
20	21.34	33.31	51.57	70.78	54.23	27.14	20.03	16.62	10- 20	35.06	91.44	83.1,83.1
30	7.071	7.649	8.085	8.896	8.484	6.778	6.405	6.803	20- 30	7.324	98.76	89.8,89.8
40	4.405	4.449	4.764	5.574	5.662	4.672	4.360	4.177	30- 40	3.655	102.4	93.1,93.1
50	3.603	3.789	4.049	4.634	4.822	3.745	3.586	3.257	40- 50	3.439	105.9	96.2,96.2
60	2.055	2.189	2.246	2.216	2.356	1.856	1.812	1.904	50- 60	2.700	108.6	98.7,98.7
70	0.6905	0.6511	0.3927	0.6395	0.8270	0.5556	0.2589	0.5257	60- 70	1.213	109.8	99.8,99.8
80	0.0750	0.0082	0.0243	0.0085	0.0373	0.0228	0.0040	0.0236	70- 80	0.2049	110.0	100,100
90	0.0088	0.0021	0.0040	0.0043	0.0110	0.0041	0.0020	0.0021	80- 90	0.0089	110.0	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): 104.14 lm

%lum = 94.7%

%lamp = 94.7%

Conical surface Flux(120deg): 108.56 lm

%lum = 98.7%

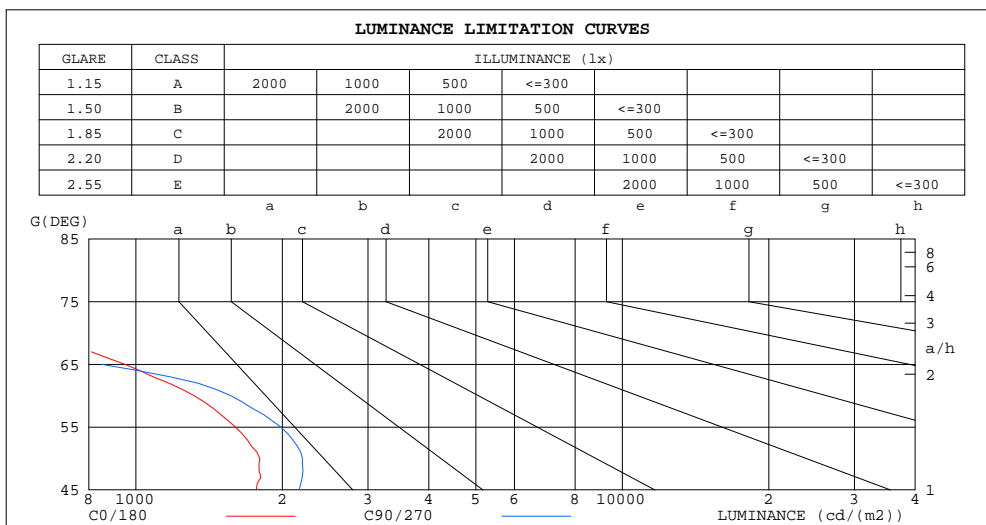
%lamp = 98.7%

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Temperature:25.3DEG  
Operators:Cao Chengpei  
Test Date:2019-01-12

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  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:109.984x1 lm		
NAME: EYE S-3015	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	121	24
80	138	49
75	434	65
70	647	401
65	949	850
60	1318	1568
55	1603	1987
50	1797	2198
45	1767	2166

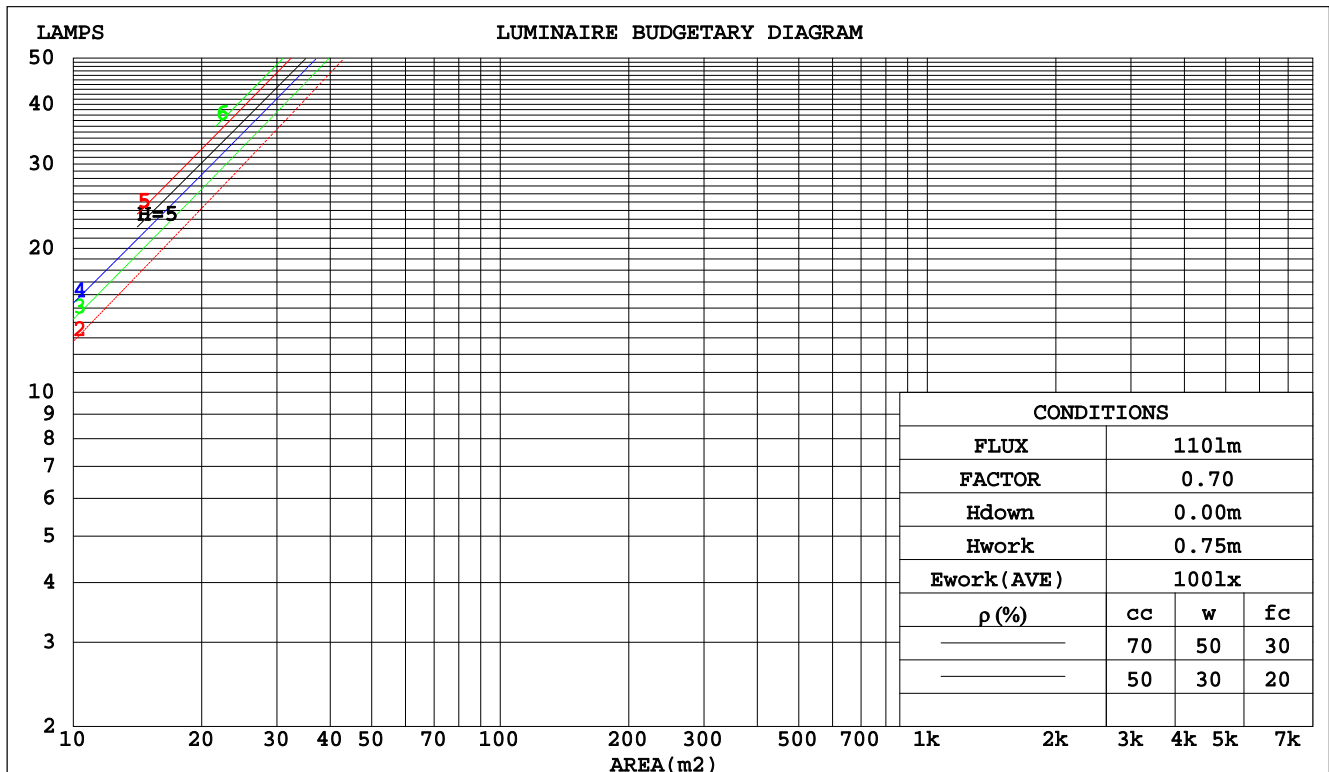
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**CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM**

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NAME: EYE S-3015	TYPE: Recessed Ground Light	SERIAL No.:
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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	1.13	1.11	1.09	1.11	1.09	1.08	1.07	1.06	1.04	1.03	1.02	1.01	.00	.99	.98	.97
2.0	1.08	1.05	1.02	1.06	1.03	1.01	1.03	1.01	.99	1.00	.98	.97	.97	.96	.95	.94
3.0	1.03	.00	.97	1.02	.99	.96	.00	.97	.95	.97	.95	.93	.95	.93	.92	.91
4.0	.00	.96	.93	.99	.95	.92	.97	.94	.91	.95	.92	.90	.93	.91	.89	.88
5.0	.96	.92	.89	.95	.92	.89	.94	.91	.88	.92	.90	.88	.91	.89	.87	.86
6.0	.93	.89	.87	.93	.89	.86	.91	.88	.86	.90	.87	.85	.89	.87	.85	.84
7.0	.91	.87	.84	.90	.87	.84	.89	.86	.84	.88	.85	.83	.87	.85	.83	.82
8.0	.89	.85	.82	.88	.85	.82	.87	.84	.82	.86	.84	.81	.86	.83	.81	.80
9.0	.87	.83	.80	.86	.83	.80	.85	.82	.80	.85	.82	.80	.84	.81	.80	.79
10.0	.85	.81	.79	.84	.81	.79	.84	.81	.78	.83	.80	.78	.83	.80	.78	.77



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Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.288  
Humidity: 53.0%  
Test Distance: 5.850m [K=1.0000]  
Remarks:

## WEC AND CCEC

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SPEC.: 3000K	DIM.: L55mm*W55mm*H70mm	
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						Wall Exitance Coefficients(WEC)										
0.0																	
1.0	.135	.077	.024	.128	.073	.023	.116	.067	.021	.105	.060	.019	.094	.055	.018		
2.0	.125	.069	.021	.120	.066	.020	.110	.061	.019	.100	.056	.018	.092	.052	.016		
3.0	.116	.062	.019	.112	.060	.018	.103	.056	.017	.095	.052	.016	.088	.049	.015		
4.0	.108	.056	.017	.104	.055	.016	.097	.052	.015	.091	.049	.015	.084	.046	.014		
5.0	.101	.051	.015	.098	.050	.015	.092	.048	.014	.086	.045	.014	.081	.043	.013		
6.0	.095	.047	.014	.092	.046	.013	.087	.044	.013	.082	.043	.012	.077	.041	.012		
7.0	.089	.044	.012	.087	.043	.012	.082	.042	.012	.078	.040	.012	.074	.038	.011		
8.0	.084	.041	.012	.082	.040	.011	.078	.039	.011	.074	.038	.011	.071	.036	.011		
9.0	.080	.038	.011	.078	.038	.011	.074	.037	.010	.071	.036	.010	.068	.035	.010		
10.0	.076	.036	.010	.074	.036	.010	.071	.035	.010	.068	.034	.010	.065	.033	.009		

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	.168	.158	.148	.144	.135	.128	.098	.093	.088	.057	.054	.051	.018	.017	.017		
2.0	.150	.133	.118	.129	.114	.102	.088	.079	.071	.051	.046	.042	.016	.015	.014		
3.0	.135	.113	.096	.116	.098	.083	.079	.068	.058	.046	.040	.034	.015	.013	.011		
4.0	.122	.098	.079	.105	.085	.069	.072	.059	.049	.042	.035	.029	.013	.011	.009		
5.0	.111	.085	.066	.096	.074	.058	.066	.052	.041	.038	.030	.024	.012	.010	.008		
6.0	.102	.075	.056	.088	.065	.049	.060	.046	.035	.035	.027	.021	.011	.009	.007		
7.0	.094	.067	.048	.081	.058	.042	.056	.041	.030	.032	.024	.018	.010	.008	.006		
8.0	.087	.060	.042	.075	.052	.036	.052	.037	.026	.030	.022	.015	.010	.007	.005		
9.0	.081	.054	.036	.070	.047	.032	.048	.033	.023	.028	.020	.013	.009	.006	.004		
10.0	.076	.049	.032	.065	.043	.028	.045	.030	.020	.026	.018	.012	.009	.006	.004		

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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:109.984x1 lm										
NAME: EYE S-3015					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	15.4	16.0	15.6	16.1	16.3	16.3	17.0	16.5	17.1	17.3
3H	15.8	16.4	16.1	16.6	16.8	16.5	17.1	16.7	17.3	17.5
4H	15.9	16.5	16.2	16.7	16.9	16.4	17.0	16.7	17.2	17.4
6H	15.9	16.4	16.1	16.6	16.9	16.4	16.9	16.6	17.1	17.3
8H	15.8	16.3	16.1	16.6	16.8	16.3	16.8	16.6	17.1	17.3
12H	15.8	16.3	16.1	16.5	16.8	16.3	16.8	16.6	17.0	17.3
4H 2H	15.8	16.4	16.1	16.6	16.8	16.6	17.2	16.9	17.4	17.6
3H	16.3	16.8	16.6	17.1	17.4	16.8	17.3	17.1	17.5	17.8
4H	16.4	16.9	16.8	17.2	17.5	16.7	17.1	17.0	17.4	17.7
6H	16.4	16.8	16.7	17.1	17.4	16.6	17.0	16.9	17.3	17.7
8H	16.3	16.7	16.7	17.0	17.4	16.5	16.9	16.9	17.3	17.6
12H	16.3	16.6	16.7	17.0	17.4	16.5	16.8	16.9	17.2	17.6
8H 4H	16.3	16.7	16.7	17.0	17.4	16.6	16.9	17.0	17.3	17.7
6H	16.2	16.5	16.6	16.9	17.3	16.5	16.8	16.9	17.2	17.6
8H	16.2	16.4	16.6	16.9	17.3	16.4	16.7	16.8	17.1	17.5
12H	16.1	16.3	16.6	16.8	17.2	16.3	16.6	16.8	17.0	17.5
12H 4H	16.2	16.6	16.6	17.0	17.3	16.5	16.9	16.9	17.2	17.6
6H	16.2	16.4	16.6	16.9	17.3	16.4	16.7	16.8	17.1	17.5
8H	16.1	16.3	16.6	16.8	17.2	16.3	16.6	16.8	17.0	17.5
Variations with the observer position at spacings:										
S = 1.0H	+ 0.4 / - 0.6					+ 0.3 / - 0.6				
1.5H	+ 0.5 / - 0.7					+ 0.8 / - 1.1				
2.0H	+ 0.9 / - 1.2					+ 1.2 / - 2.1				

CIE Pub.117, 110.0 lm Total Lamp Luminous Flux Correct ( $8\log(F/F_0) = -7.7$ )

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Temperature: 25.3DEG  
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$\gamma$  Range: 0 - 90DEG  
 $\gamma$  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:109.984x1 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	81	77	87	81	77	86	80	77	73
0.80	95	89	85	94	88	85	93	88	84	81
1.00	99	93	90	98	93	90	97	93	89	85
1.25	103	98	94	102	97	94	100	96	93	89
1.50	106	101	98	105	100	97	102	99	96	92
2.00	108	104	101	107	103	100	104	101	99	94
2.50	110	106	103	109	105	102	105	103	101	95
3.00	112	108	106	110	107	105	107	104	102	96
4.00	114	111	109	112	109	107	108	106	105	98
5.00	115	113	111	113	111	109	109	108	106	99
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

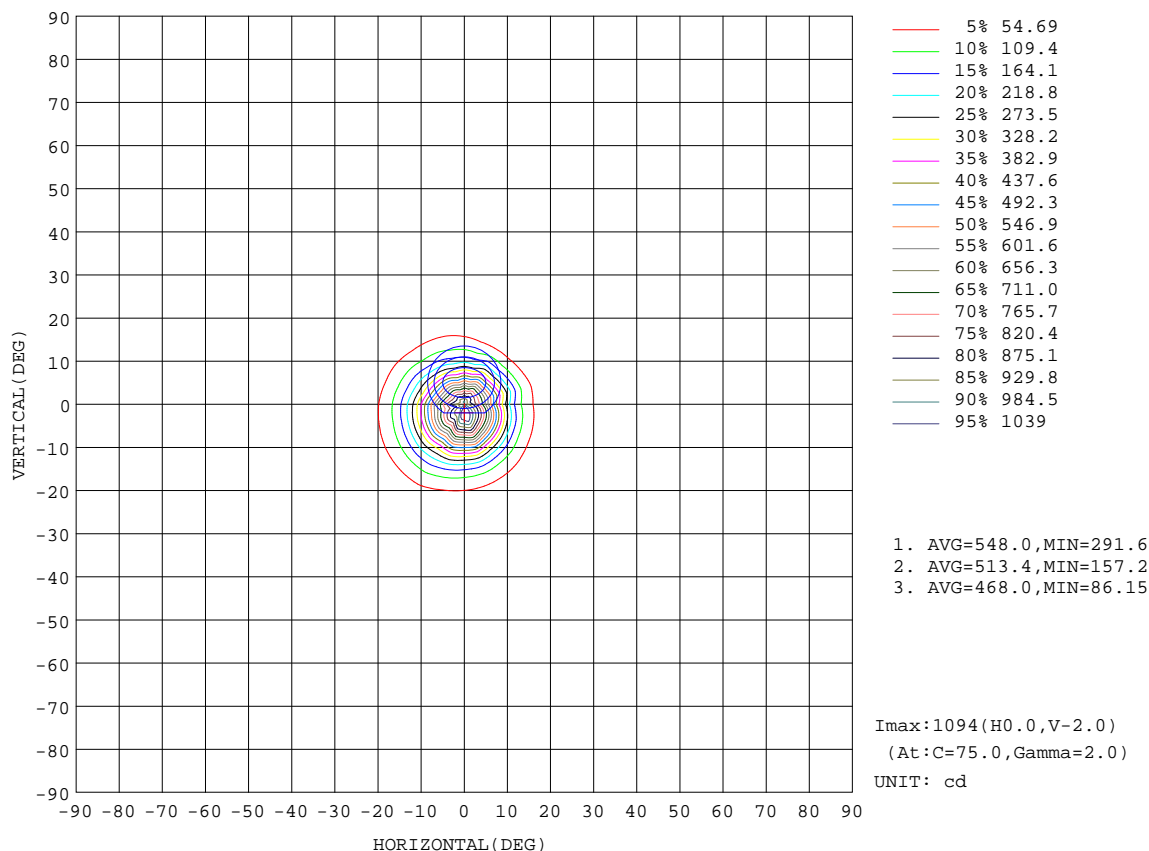
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ISOCANDELA DIAGRAM

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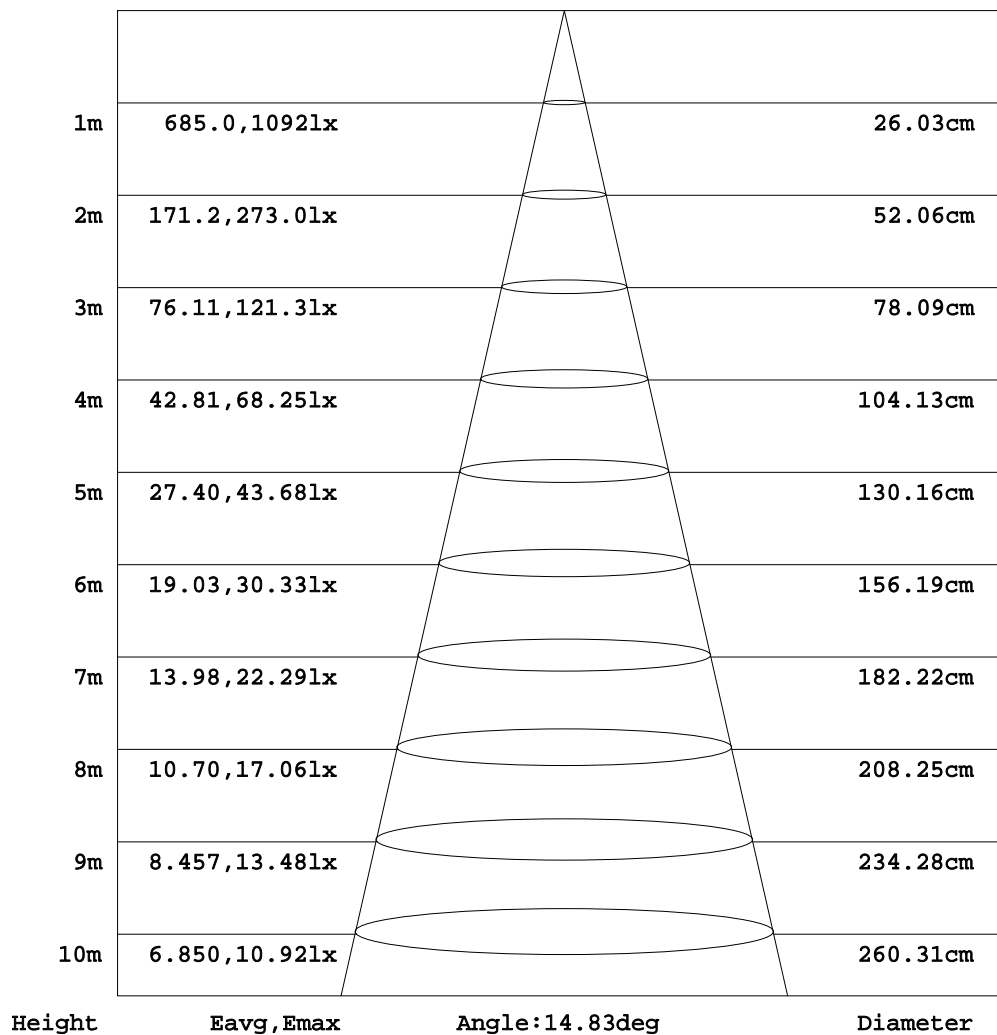
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AAI Figure

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NAME: EYE S-3015	TYPE: Recessed Ground Light	SERIAL No.:
SPEC.: 3000K	DIM.: L55mm*W55mm*H70mm	
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Flux out: 42.50 lm



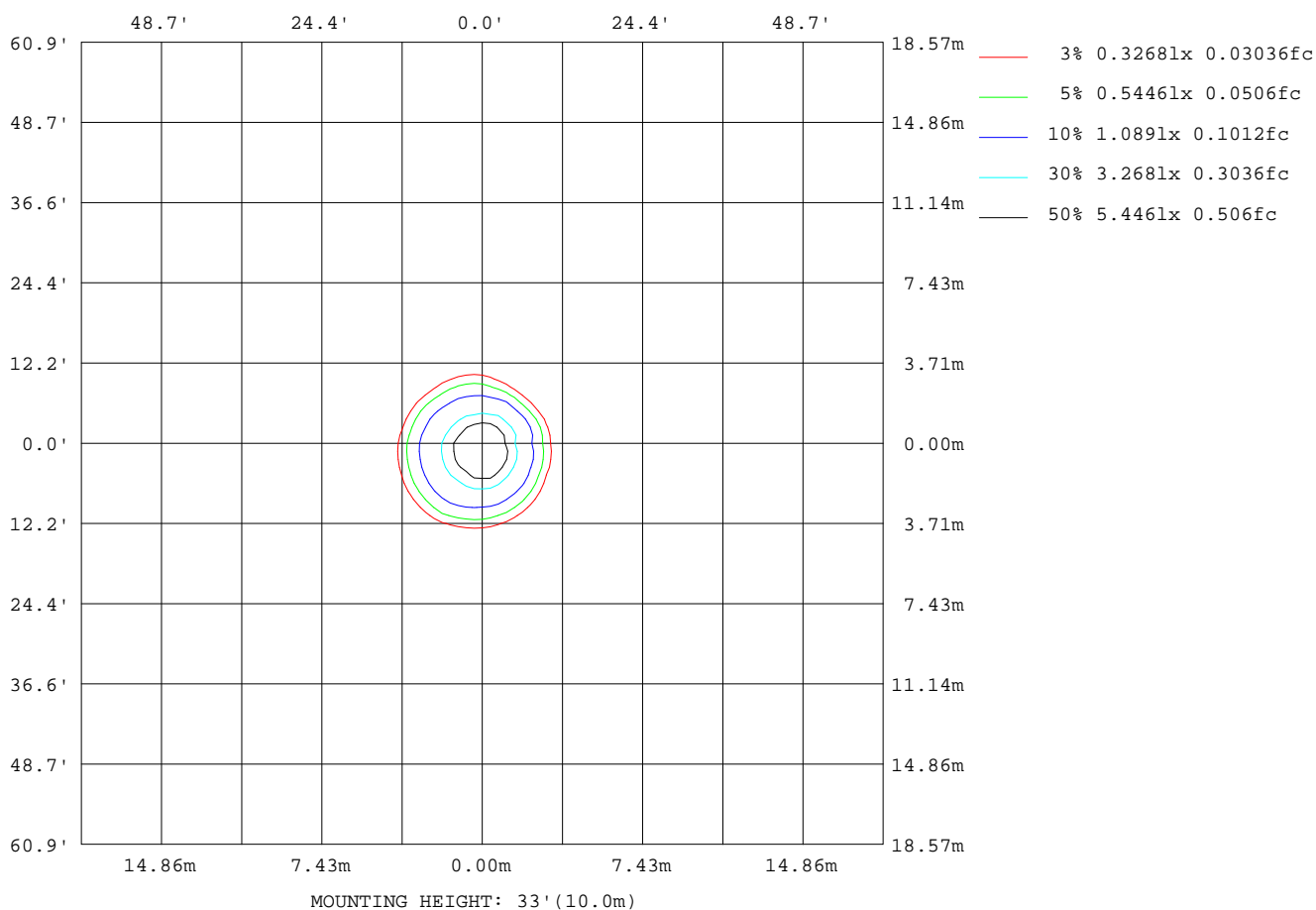
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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ISOLUX DIAGRAM

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Remarks:

### LED Avg.L Report

Test:U:24.00V I:0.0812A P:1.948W PF:1.000 Freq:0Hz Lamp Flux:109.984x1 lm		
NAME: EYE S-3015	TYPE: Recessed Ground Light	SERIAL No.:
SPEC.: 3000K	DIM.: L55mm*W55mm*H70mm	
MFR.: NEKO LIGHTING AG		

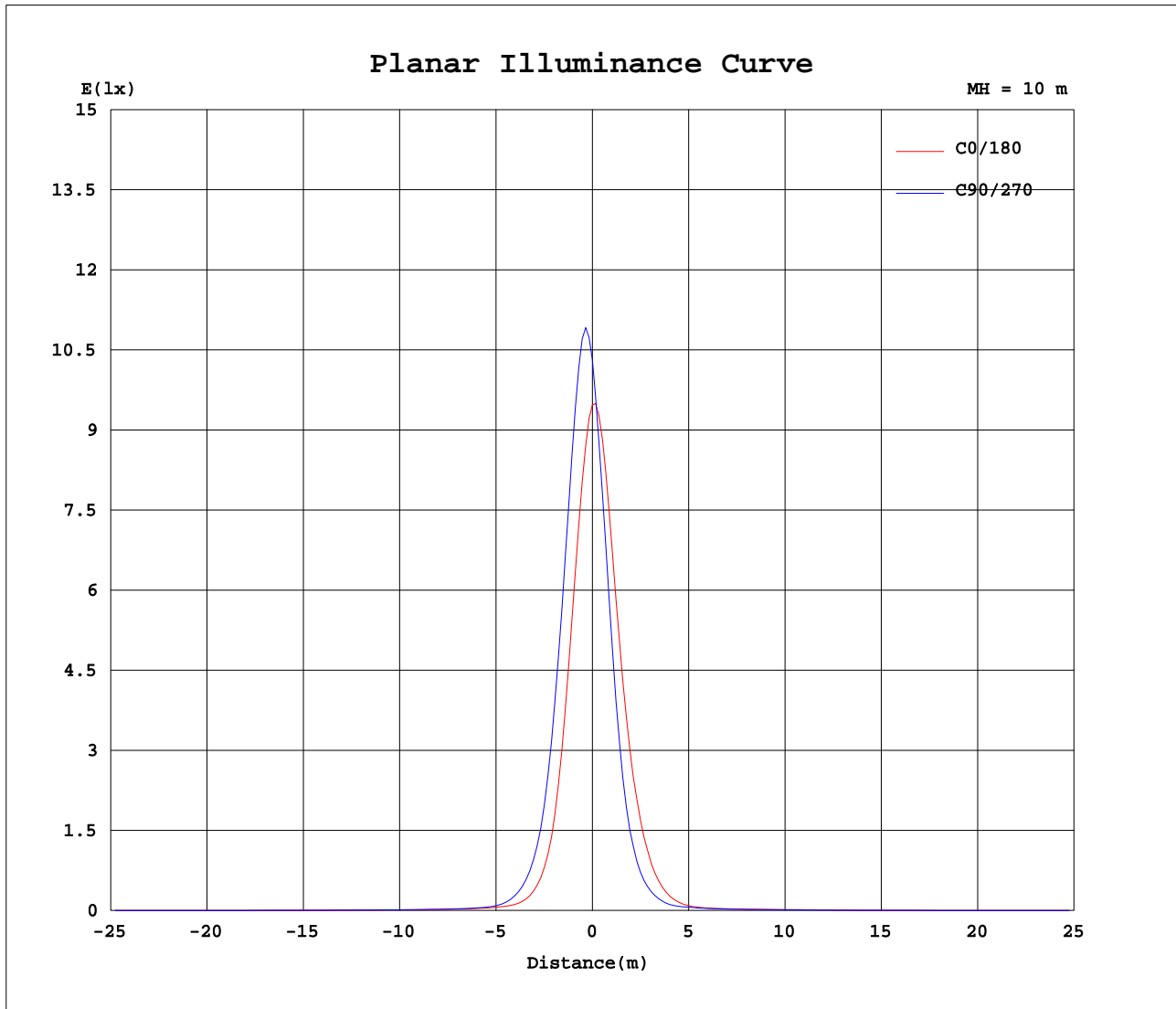
AvgL	cd/m2
L_0~180(65)av	1043
L_0~180(75)av	477
L_0~180(85)av	83
L_90~270(65)av	770
L_90~270(75)av	49
L_90~270(85)av	15
L_45(65)av	957
L_45(75)av	67
L_45(85)av	10

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

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  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:

```