

M3-11W-940-25



Light Output Ratio:	100.0%	
Luminaire Power:	12.92 W	
SHR Nominal:	0.00	Calculated using the TM5
SHR Maximum:	1.00	fine grid method.

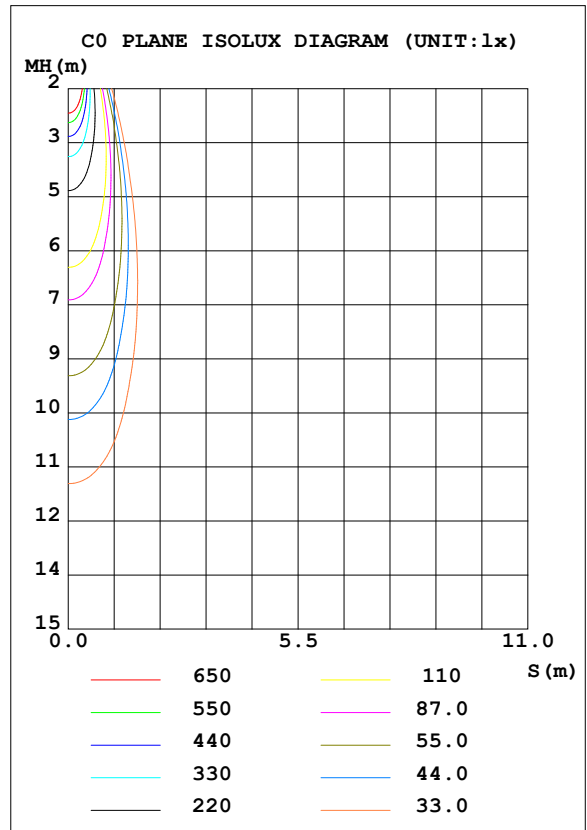
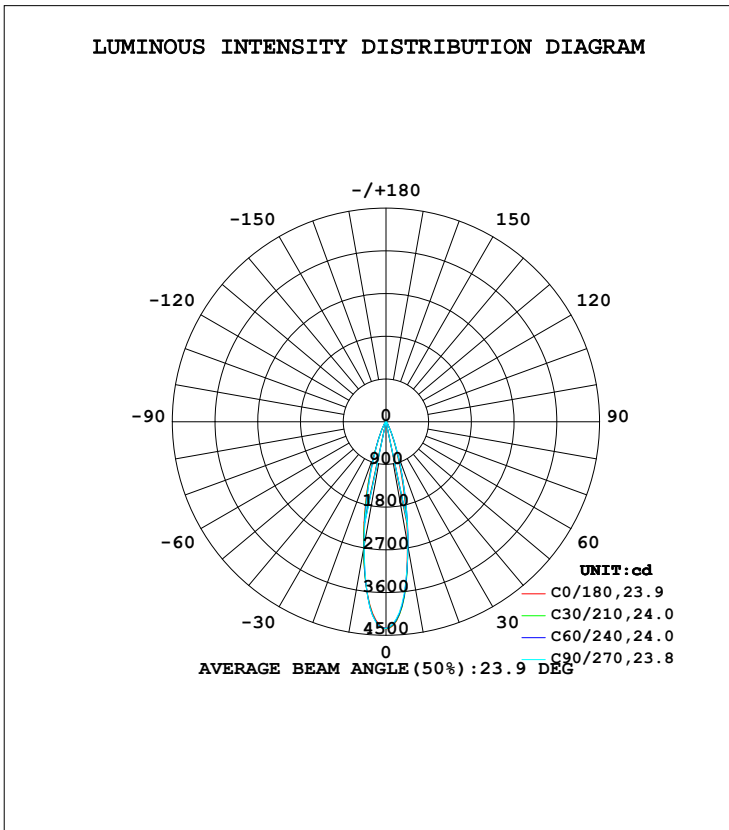
C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: Myles  
Test Date: 2019-03-02

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  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:220.6V I:0.0654A P:12.92W PF:0.8958 Freq:49.90Hz Lamp Flux:1010.24x1 lm		
NAME: M3-11W-940-25	TYPE:Downlight	SERIAL No.:
SPEC.:4000K	DIM.: φ50mm*H40mm	
MFR.: NEKO LIGHTING AG		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 78.19 lm/W			
MODEL	CITIZEN-4000K	I <sub>max</sub> (cd)	4371	S/MH (C0/180)	0.41
NOMINAL POWER (W)	13	LOR (%)	100.0	S/MH (C90/270)	0.40
RATED VOLTAGE (V)	220	TOTAL FLUX (lm)	1010.2	η UP, DN (C0-180)	0.0, 50.2
NOMINAL FLUX (lm)	1010.24	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 49.8
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



C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: Myles  
 Test Date: 2019-03-02

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:

**ZONAL FLUX DIAGRAM**

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	2604	2707	2658	2636	2726	2647	2657	2621	0- 10	330.0	330.0	32.7,32.7
20	634.7	716.8	711.9	713.2	725.4	674.2	667.0	636.8	10- 20	408.0	738.0	73.1,73.1
30	129.6	135.3	136.3	135.3	136.4	134.6	143.8	135.9	20- 30	148.3	886.3	87.7,87.7
40	48.66	48.99	48.93	48.66	49.73	52.11	50.45	50.30	30- 40	48.65	934.9	92.5,92.5
50	29.56	29.47	28.93	28.55	30.21	31.43	30.02	27.73	40- 50	29.15	964.1	95.4,95.4
60	19.90	20.93	20.75	18.94	20.85	20.50	18.12	18.24	50- 60	21.81	985.9	97.6,97.6
70	10.71	10.97	10.87	10.80	10.85	10.89	10.82	10.92	60- 70	14.78	1001	99.1,99.1
80	4.251	4.508	3.999	4.116	4.233	4.433	4.596	4.677	70- 80	7.889	1009	99.8,99.8
90	0.0568	0.0525	0.0547	0.0547	0.0437	0.0437	0.0415	0.0437	80- 90	1.682	1010	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): 950.78 lm

%lum = 94.1%  
%lamp = 94.1%

Conical surface Flux(120deg): 985.89 lm

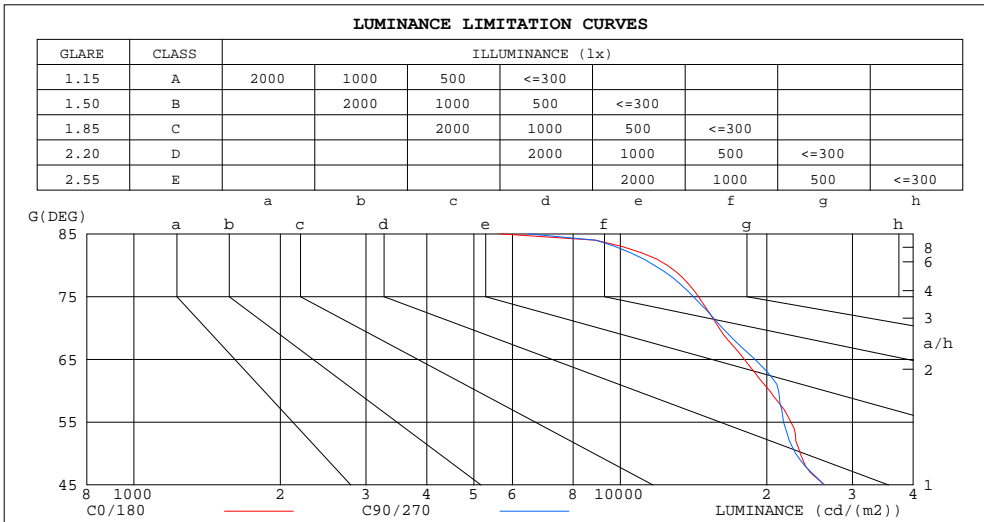
%lum = 97.6%  
%lamp = 97.6%

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Myles  
Test Date:2019-03-02

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:

**LUMINANCE LIMITATION CURVES**

Test:U:220.6V I:0.0654A P:12.92W PF:0.8958 Freq:49.90Hz Lamp Flux:1010.24x1 lm		
NAME: M3-11W-940-25	TYPE:Downlight	SERIAL No.:
SPEC.:4000K	DIM.: φ50mm*H40mm	
MFR.: NEKO LIGHTING AG		



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	5648	6456
80	12473	11735
75	14470	14131
70	15957	16200
65	17981	18909
60	20279	21144
55	22418	21647
50	23431	22931
45	26250	26273

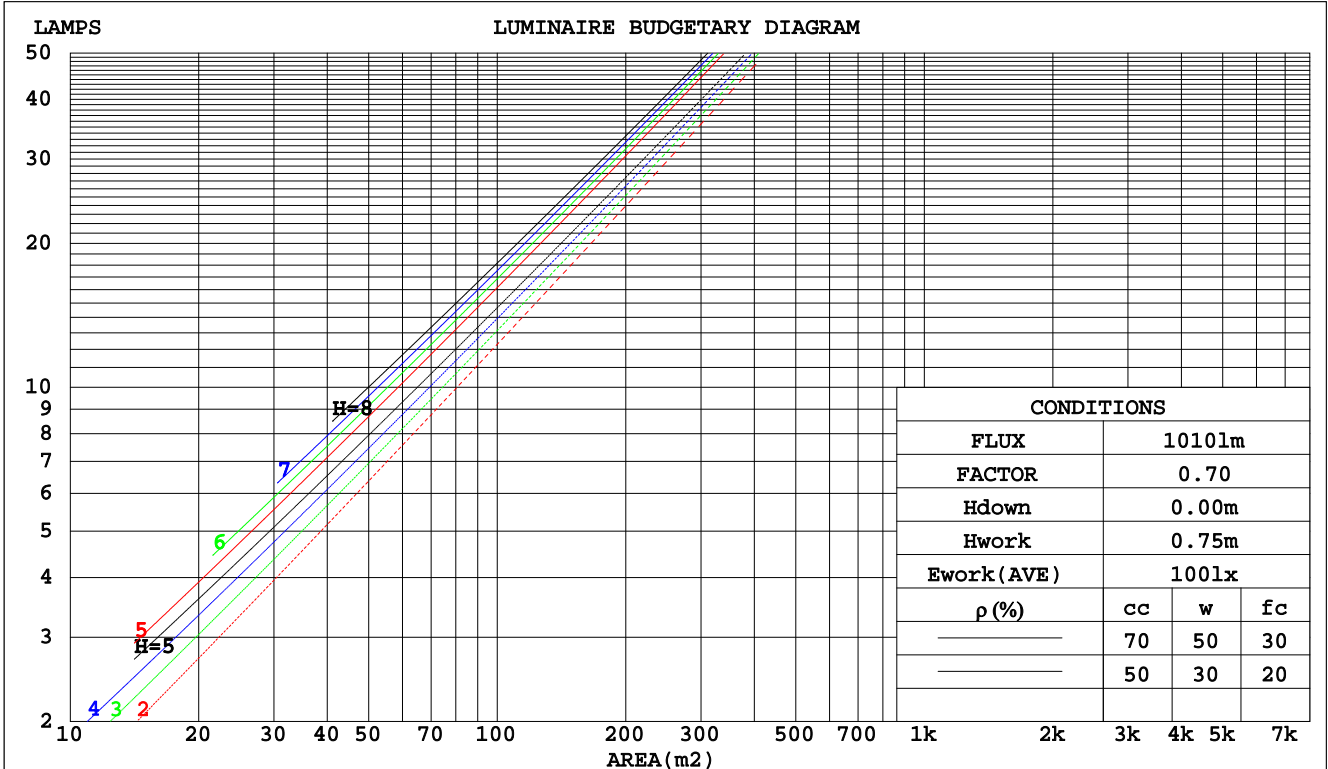
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 Remarks:

**CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM**

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SPEC.:4000K	DIM.: φ50mm*H40mm	
MFR.: NEKO LIGHTING AG		

pcc	80%			70%			50%			30%			10%			0
	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρw																0
ρfc																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	1.06	1.02	.00	1.04	1.01	.98	1.01	.99	.96	.98	.96	.94	.95	.94	.92	.91
3.0	1.01	.96	.93	.99	.96	.93	.97	.94	.91	.94	.92	.90	.92	.90	.88	.87
4.0	.96	.92	.88	.95	.91	.88	.93	.89	.87	.91	.88	.86	.89	.87	.85	.83
5.0	.92	.87	.84	.91	.87	.84	.89	.86	.83	.88	.85	.82	.86	.84	.82	.80
6.0	.88	.84	.80	.88	.83	.80	.86	.83	.80	.85	.82	.79	.84	.81	.79	.77
7.0	.85	.81	.77	.85	.80	.77	.84	.80	.77	.82	.79	.76	.81	.78	.76	.75
8.0	.82	.78	.75	.82	.78	.74	.81	.77	.74	.80	.76	.74	.79	.76	.74	.73
9.0	.80	.75	.72	.79	.75	.72	.78	.75	.72	.78	.74	.72	.77	.74	.71	.70
10.0	.77	.73	.70	.77	.73	.70	.76	.72	.70	.76	.72	.70	.75	.72	.69	.68



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 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
 Humidity: 56%  
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 Remarks:

WEC AND CCEC

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SPEC.:4000K	DIM.: φ50mm*H40mm	
MFR.: NEKO LIGHTING AG		

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						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.155	.088	.028	.148	.084	.027	.135	.078	.025	.124	.071	.023	.113	.066	.021	
2.0	.144	.079	.024	.138	.076	.023	.128	.071	.022	.118	.066	.021	.110	.062	.020	
3.0	.134	.071	.021	.129	.069	.021	.121	.065	.020	.113	.062	.019	.105	.058	.018	
4.0	.125	.065	.019	.121	.063	.019	.114	.060	.018	.107	.057	.017	.101	.055	.017	
5.0	.117	.060	.017	.114	.059	.017	.108	.056	.017	.102	.054	.016	.096	.052	.015	
6.0	.111	.055	.016	.108	.054	.016	.102	.052	.015	.097	.051	.015	.092	.049	.014	
7.0	.105	.052	.015	.102	.051	.015	.097	.049	.014	.093	.048	.014	.089	.046	.014	
8.0	.099	.049	.014	.097	.048	.014	.093	.046	.013	.089	.045	.013	.085	.044	.013	
9.0	.095	.046	.013	.093	.045	.013	.089	.044	.012	.085	.043	.012	.082	.042	.012	
10.0	.090	.043	.012	.089	.043	.012	.085	.042	.012	.082	.041	.012	.079	.040	.011	

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	.158	.147	.145	.135	.126	.099	.093	.087	.057	.054	.051	.018	.017	.016	
2.0	.153	.133	.116	.131	.114	.100	.090	.079	.070	.052	.046	.041	.017	.015	.013	
3.0	.138	.113	.094	.119	.098	.081	.081	.068	.057	.047	.040	.034	.015	.013	.011	
4.0	.126	.098	.077	.108	.085	.067	.075	.059	.047	.043	.035	.028	.014	.011	.009	
5.0	.116	.086	.064	.100	.074	.056	.069	.052	.039	.040	.031	.023	.013	.010	.008	
6.0	.107	.076	.054	.092	.066	.047	.064	.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	.030	.020	.013	.010	.007	.004	
10.0	.083	.051	.030	.071	.045	.027	.049	.031	.019	.029	.019	.011	.009	.006	.004	

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:Myles  
 Test Date:2019-03-02

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:220.6V I:0.0654A P:12.92W PF:0.8958 Freq:49.90Hz Lamp Flux:1010.24x1 lm		
NAME: M3-11W-940-25	TYPE:Downlight	SERIAL No.:
SPEC.:4000K	DIM.: φ50mm*H40mm	
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	17.3	18.0	17.5	18.2	18.3	17.3	18.1	17.5	18.2	18.4
3H	18.3	19.0	18.5	19.2	19.3	18.4	19.1	18.6	19.2	19.4
4H	18.7	19.3	19.0	19.6	19.8	18.8	19.4	19.0	19.6	19.8
6H	19.0	19.6	19.3	19.8	20.1	19.0	19.6	19.3	19.9	20.1
8H	19.1	19.7	19.4	19.9	20.2	19.1	19.7	19.4	19.9	20.2
12H	19.1	19.6	19.4	19.9	20.2	19.1	19.7	19.4	19.9	20.2
4H 2H	17.8	18.4	18.0	18.6	18.8	17.8	18.5	18.1	18.7	18.9
3H	18.9	19.5	19.2	19.8	20.0	19.0	19.6	19.3	19.8	20.1
4H	19.4	20.0	19.8	20.3	20.6	19.5	20.0	19.8	20.3	20.6
6H	19.8	20.3	20.2	20.6	21.0	19.8	20.3	20.2	20.6	21.0
8H	19.9	20.4	20.3	20.7	21.1	19.9	20.4	20.3	20.7	21.1
12H	20.0	20.4	20.4	20.7	21.1	19.9	20.3	20.4	20.7	21.1
8H 4H	19.6	20.1	20.0	20.4	20.8	19.7	20.1	20.0	20.4	20.8
6H	20.1	20.5	20.5	20.9	21.3	20.1	20.5	20.5	20.9	21.3
8H	20.3	20.6	20.7	21.0	21.4	20.2	20.6	20.7	21.0	21.4
12H	20.3	20.6	20.8	21.0	21.5	20.3	20.6	20.8	21.0	21.5
12H 4H	19.6	20.0	20.0	20.4	20.8	19.6	20.0	20.1	20.4	20.8
6H	20.1	20.5	20.6	20.9	21.3	20.1	20.4	20.6	20.9	21.3
8H	20.3	20.6	20.8	21.0	21.5	20.3	20.6	20.7	21.0	21.5
Variations with the observer position at spacings:										
S = 1.0H	+ 0.3 / - 0.4					+ 0.3 / - 0.4				
1.5H	+ 0.2 / - 0.3					+ 0.3 / - 0.3				
2.0H	+ 0.3 / - 0.4					+ 0.2 / - 0.4				

CIE Pub.117, 1010 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 0.0)

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
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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:

**UTILIZATION FACTORS TABLE**

Test:U:220.6V I:0.0654A P:12.92W PF:0.8958 Freq:49.90Hz Lamp Flux:1010.24x1 lm		
NAME: M3-11W-940-25	TYPE:Downlight	SERIAL No.:
SPEC.:4000K	DIM.: φ50mm*H40mm	
MFR.: NEKO LIGHTING AG		

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	86	80	77	86	80	76	73
0.80	94	88	85	94	88	84	92	87	84	80
1.00	99	93	89	98	92	89	96	92	88	84
1.25	103	97	94	102	97	93	100	96	93	88
1.50	105	100	97	104	100	97	102	98	95	91
2.00	108	104	101	107	103	100	104	101	98	93
2.50	110	106	103	108	105	102	105	102	100	94
3.00	111	108	105	110	107	104	106	104	102	95
4.00	114	111	108	112	109	107	108	106	104	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			

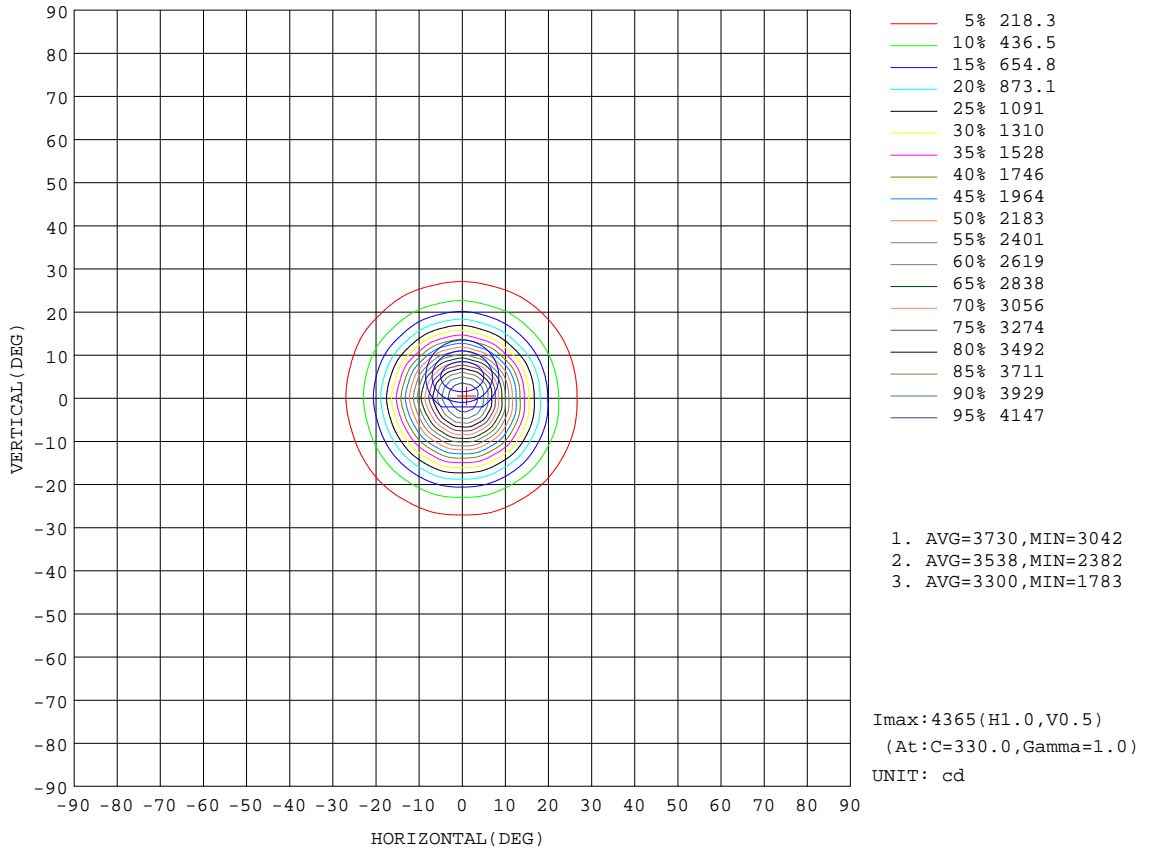
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**ISOCANDELA DIAGRAM**

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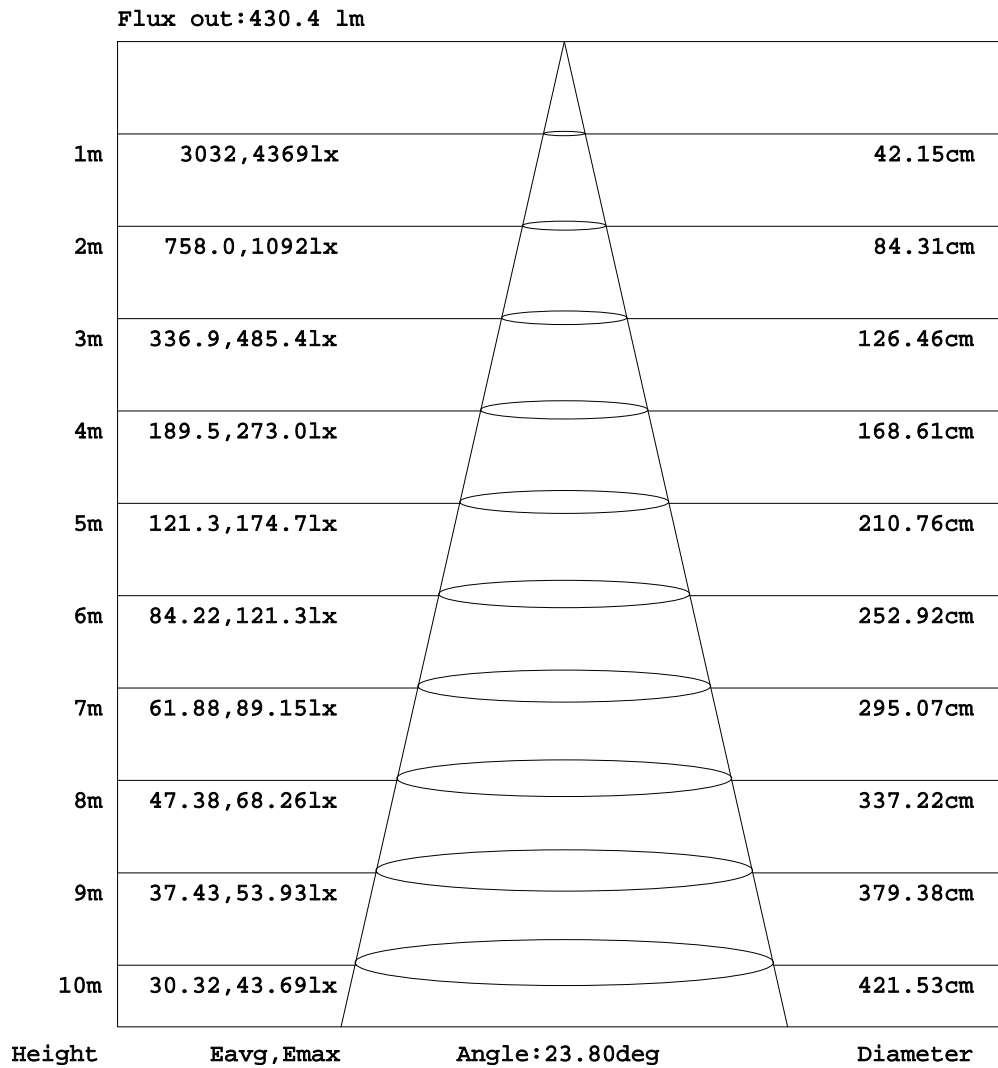


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**AAI Figure**

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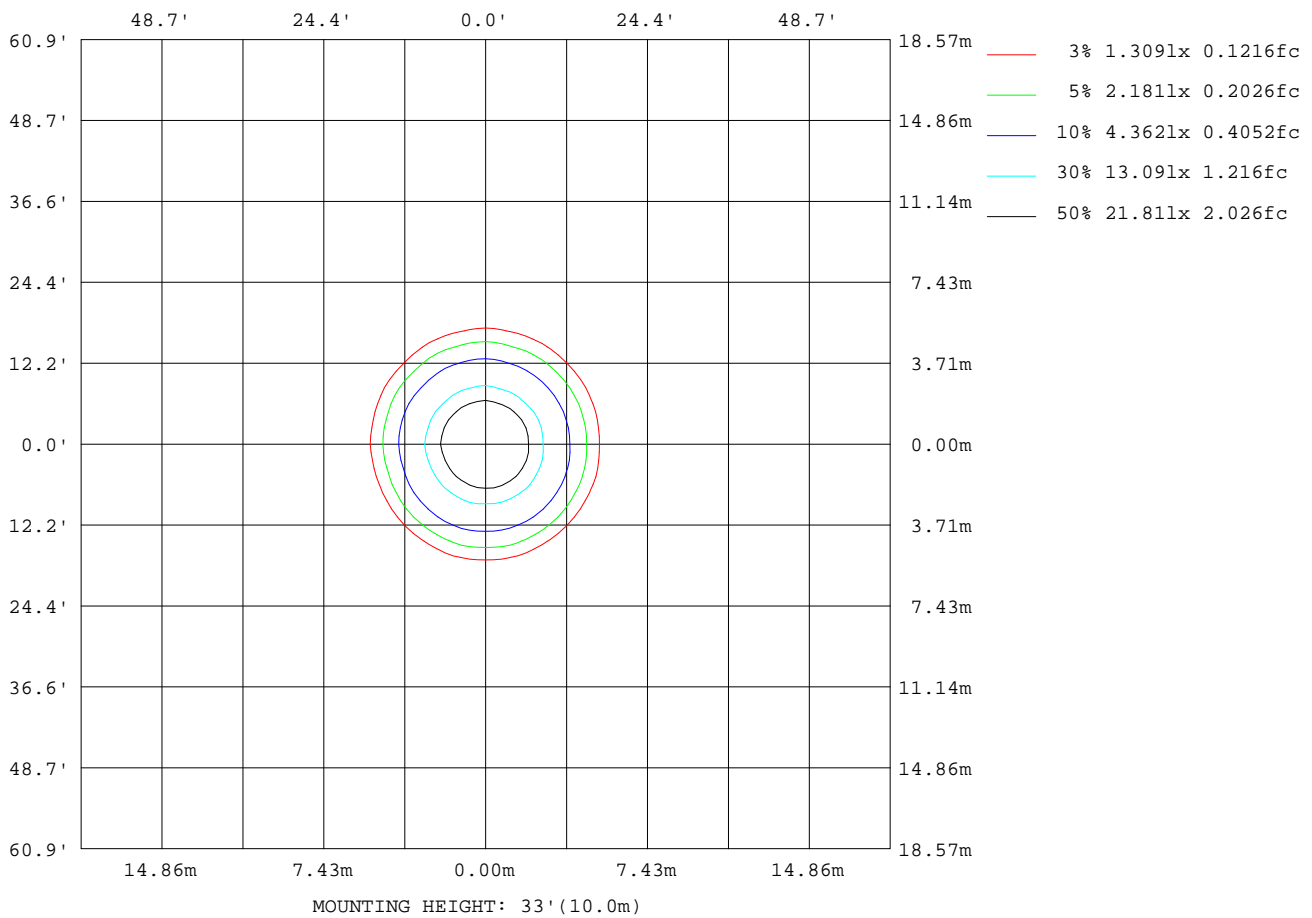
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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**ISOLUX DIAGRAM**

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SPEC.:4000K	DIM.: φ50mm*H40mm	
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LED Avg.L Report

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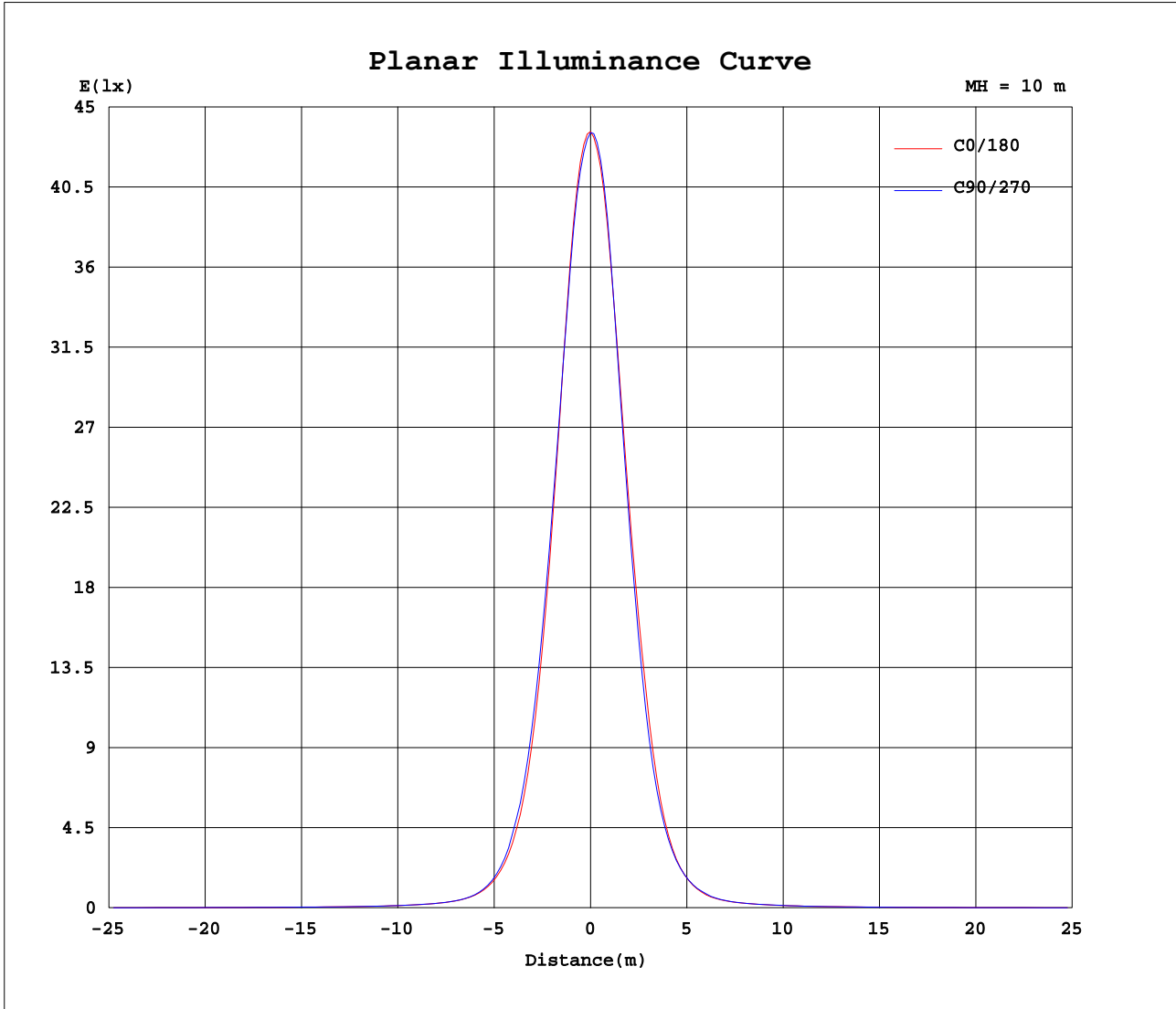
AvgL	cd/m2
L_0~180 (65) av	18198
L_0~180 (75) av	14421
L_0~180 (85) av	6049
L_90~270 (65) av	17930
L_90~270 (75) av	14640
L_90~270 (85) av	5910
L_45 (65) av	17869
L_45 (75) av	14878
L_45 (85) av	5825

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Myles  
Test Date:2019-03-02

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: Myles  
 Test Date: 2019-03-02

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
 Humidity: 56%  
 Test Distance: 5.850m [K=1.0000]  
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.6V I:0.0654A P:12.92W PF:0.8958 Freq:49.90Hz Lamp Flux:1010.24x1 lm		
NAME: M3-11W-940-25	TYPE:Downlight	SERIAL No.:
SPEC.:4000K	DIM.: φ50mm*H40mm	
MFR.: NEKO LIGHTING AG		

Table--1 UNIT: cd

C (DEG) γ (DEG)	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270
0	4362	4360	4359	4356	4354	4357	4356	4357	4353	4364	4361	4364	4362	4360	4359	4356	4354	4357	4356
5	3900	3937	3913	3935	3894	3905	3859	3866	3802	3809	3777	3810	3882	3862	3906	3886	3920	3890	3923
10	2604	2684	2659	2707	2673	2705	2658	2677	2611	2636	2606	2637	2726	2685	2719	2647	2677	2626	2657
15	1396	1478	1482	1555	1519	1556	1508	1561	1510	1537	1498	1523	1592	1523	1544	1466	1483	1435	1460
20	635	674	684	717	713	732	712	741	717	713	698	692	725	705	711	674	686	659	667
25	282	294	296	306	307	319	309	318	303	302	293	287	303	300	310	297	305	295	299
30	130	134	131	135	133	140	136	141	132	135	127	130	136	134	140	135	144	136	144
35	71.0	71.1	71.8	71.8	70.6	72.4	72.2	72.8	71.0	70.4	69.9	68.7	72.1	73.0	74.6	74.0	76.3	74.5	75.2
40	48.7	49.7	50.1	49.0	48.2	48.6	48.9	49.2	48.8	48.7	47.6	47.6	49.7	49.8	51.5	52.1	52.4	50.4	50.4
45	36.4	37.6	37.2	36.8	36.2	36.3	36.5	37.5	37.0	36.1	35.9	36.2	37.7	37.8	38.9	39.4	39.9	38.1	37.8
50	29.6	30.0	29.7	29.5	29.1	29.0	28.9	29.7	29.1	28.5	28.3	28.8	30.2	30.2	30.8	31.4	31.3	30.5	30.0
55	25.2	25.5	25.1	24.8	24.8	24.6	24.4	24.5	23.4	23.2	23.4	23.8	25.6	25.6	26.1	26.6	25.7	24.5	23.8
60	19.9	20.1	20.3	20.9	21.0	21.0	20.7	20.0	19.1	18.9	18.8	19.3	20.9	20.9	21.0	20.5	19.6	18.4	18.1
65	14.9	14.8	15.0	15.4	15.5	15.8	15.7	15.1	14.6	14.8	14.4	14.6	15.3	14.9	15.2	14.8	14.8	14.2	14.1
70	10.7	10.8	10.8	11.0	10.9	11.0	10.9	10.6	10.6	10.8	10.5	10.4	10.8	10.6	10.9	10.9	11.1	10.9	10.8
75	7.35	7.41	7.50	7.57	7.35	7.28	7.18	7.07	7.14	7.30	7.13	7.07	7.30	7.29	7.46	7.54	7.72	7.78	7.69
80	4.25	4.34	4.43	4.51	4.21	4.14	4.00	4.00	4.01	4.12	3.98	4.03	4.23	4.25	4.41	4.43	4.61	4.66	4.60
85	0.97	1.03	0.96	1.06	1.09	1.12	1.10	1.13	1.08	1.07	1.02	1.03	1.10	1.06	1.03	0.94	0.98	0.93	0.92
90	0.06	0.05	0.06	0.05	0.06	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.04	0.04	0.04	0.04	0.04	0.04	0.04

C Range: 0 - 360DEG          γ Range: 0 - 90DEG  
 C Interval: 15.0DEG        γ Interval: 1.0DEG  
 Test Speed: HIGH            Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
 Temperature:25.3DEG      Humidity:56%  
 Operators:Myles            Test Distance:5.850m [K=1.0000]  
 Test Date:2019-03-02      Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.6V I:0.0654A P:12.92W PF:0.8958 Freq:49.90Hz Lamp Flux:1010.24x1 lm		
NAME: M3-11W-940-25	TYPE:Downlight	SERIAL No.:
SPEC.:4000K	DIM.: $\phi$ 50mm*H40mm	
MFR.: NEKO LIGHTING AG		

C (DEG) \ $\gamma$ (DEG)	285	300	315	330	345															
0	4357	4353	4364	4361	4364															
5	3891	3941	3945	3983	3954															
10	2582	2638	2621	2682	2646															
15	1374	1411	1376	1443	1421															
20	643	638	637	639	634															
25	284	289	284	287	285															
30	138	142	136	137	131															
35	75.3	75.6	74.5	74.0	72.0															
40	49.9	50.5	50.3	50.9	48.5															
45	36.7	36.8	36.3	36.6	35.6															
50	28.5	27.9	27.7	28.4	28.2															
55	22.4	22.0	22.7	23.5	24.3															
60	17.5	17.7	18.2	19.0	19.2															
65	13.9	14.1	14.2	14.7	14.6															
70	10.8	10.9	10.9	10.9	10.8															
75	7.67	7.70	7.81	7.69	7.48															
80	4.52	4.61	4.68	4.57	4.38															
85	0.87	0.90	0.91	0.97	1.00															
90	0.04	0.04	0.04	0.04	0.04															

C Range: 0 - 360DEG	$\gamma$ Range: 0 - 90DEG
C Interval: 15.0DEG	$\gamma$ Interval: 1.0DEG
Test Speed: HIGH	Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Temperature:25.3DEG	Humidity:56%
Operators:Myles	Test Distance:5.850m [K=1.0000]
Test Date:2019-03-02	Remarks: