

M3-11W-940-15



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.

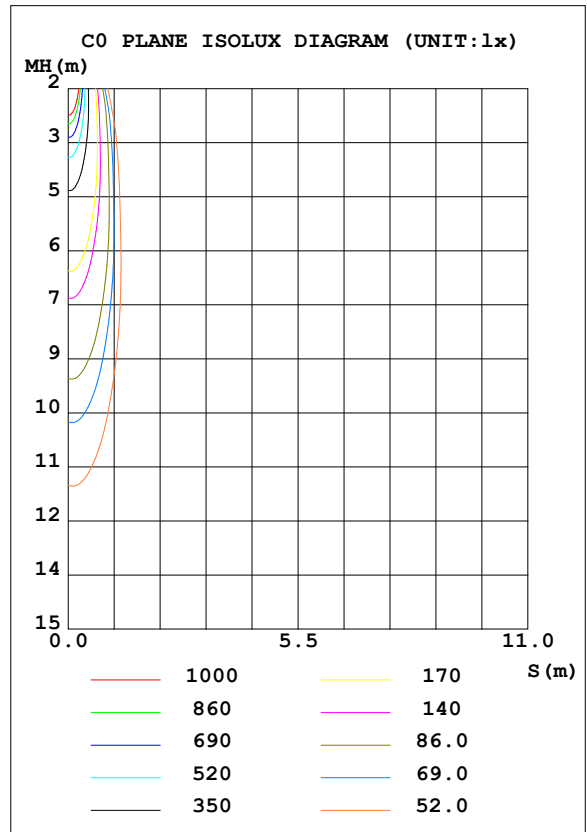
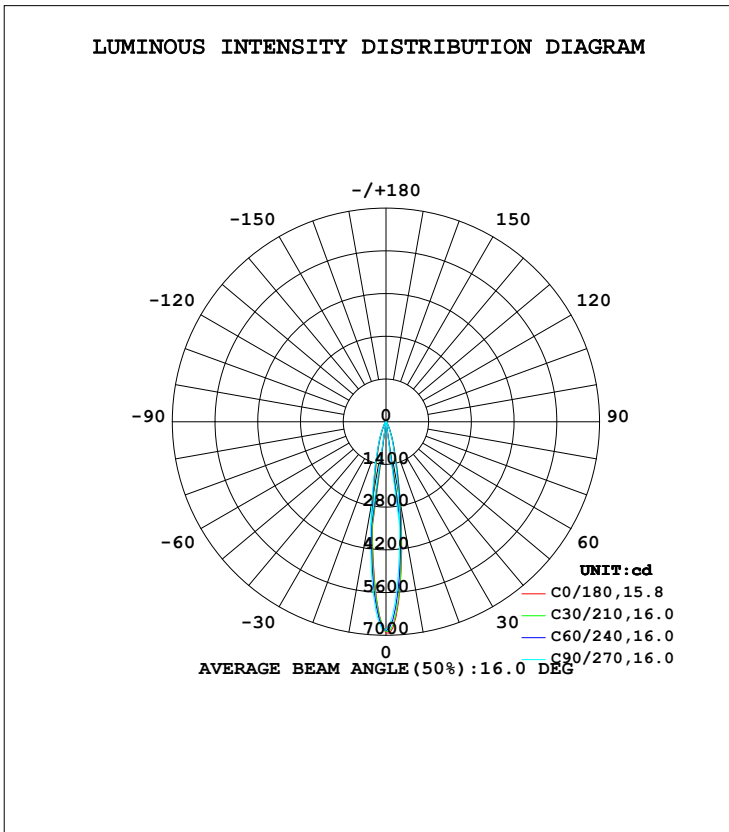
C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: Myles  
Test Date: 2019-03-02

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:220.6V I:0.0654A P:12.92W PF:0.8958 Freq:49.90Hz Lamp Flux:1004.95x1 lm		
NAME: M3-11W-940-15	TYPE:Downlight	SERIAL No.:
SPEC.:4000K	DIM.: φ50mm*H40mm	
MFR.: NEKO LIGHTING AG		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 77.78 lm/W			
MODEL	CITIZEN-4000K	I <sub>max</sub> (cd)	6928	S/MH (C0/180)	0.26
NOMINAL POWER (W)	13	LOR (%)	100.0	S/MH (C90/270)	0.29
RATED VOLTAGE (V)	220	TOTAL FLUX (lm)	1004.9	η UP, DN (C0-180)	0.0, 48.9
NOMINAL FLUX (lm)	1004.95	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 51.1
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



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 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:

$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	$\Phi$ zone	$\Phi$ total	%lum,lamp
10	2732	2700	2347	2201	2336	2410	2699	2755	0- 10	395.9	395.9	39.4,39.4
20	622.4	616.7	553.6	511.4	554.3	597.9	638.1	622.1	10- 20	337.2	733.0	72.9,72.9
30	144.9	153.7	135.6	129.6	134.2	148.0	153.3	143.3	20- 30	138.3	871.3	86.7,86.7
40	56.08	58.54	53.15	52.13	54.14	56.02	56.05	54.74	30- 40	53.60	924.9	92,92
50	31.45	31.96	30.24	30.21	30.99	30.49	29.80	30.13	40- 50	31.36	956.3	95.2,95.2
60	20.38	20.86	20.08	20.21	20.44	19.55	19.02	19.97	50- 60	22.22	978.5	97.4,97.4
70	12.06	12.33	12.24	11.94	12.03	11.66	11.33	11.70	60- 70	15.62	994.1	98.9,98.9
80	5.259	5.239	4.927	4.710	5.064	5.010	5.044	5.045	70- 80	8.887	1003	99.8,99.8
90	0.0590	0.0590	0.0568	0.0590	0.0481	0.0503	0.0437	0.0459	80- 90	1.914	1005	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): 942.26 lm

%lum = 93.8%  
%lamp = 93.8%

Conical surface Flux(120deg): 978.53 lm

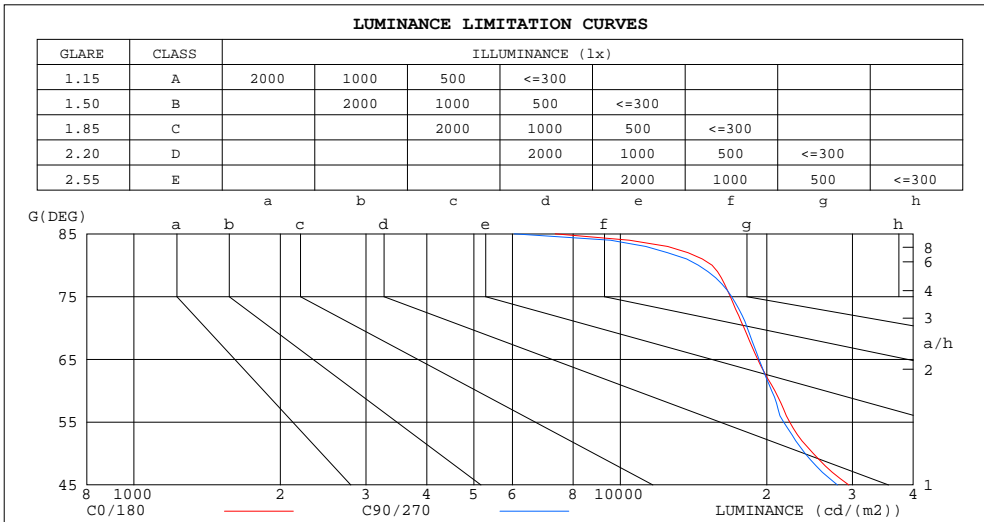
%lum = 97.4%  
%lamp = 97.4%

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:

**LUMINANCE LIMITATION CURVES**

Test:U:220.6V I:0.0654A P:12.92W PF:0.8958 Freq:49.90Hz Lamp Flux:1004.95x1 lm		
NAME: M3-11W-940-15	TYPE:Downlight	SERIAL No.:
SPEC.:4000K	DIM.: φ50mm*H40mm	
MFR.: NEKO LIGHTING AG		



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	7350	6049
80	15432	14459
75	16834	16939
70	17960	18234
65	19161	19282
60	20772	20462
55	22302	21665
50	24928	23970
45	29495	27943

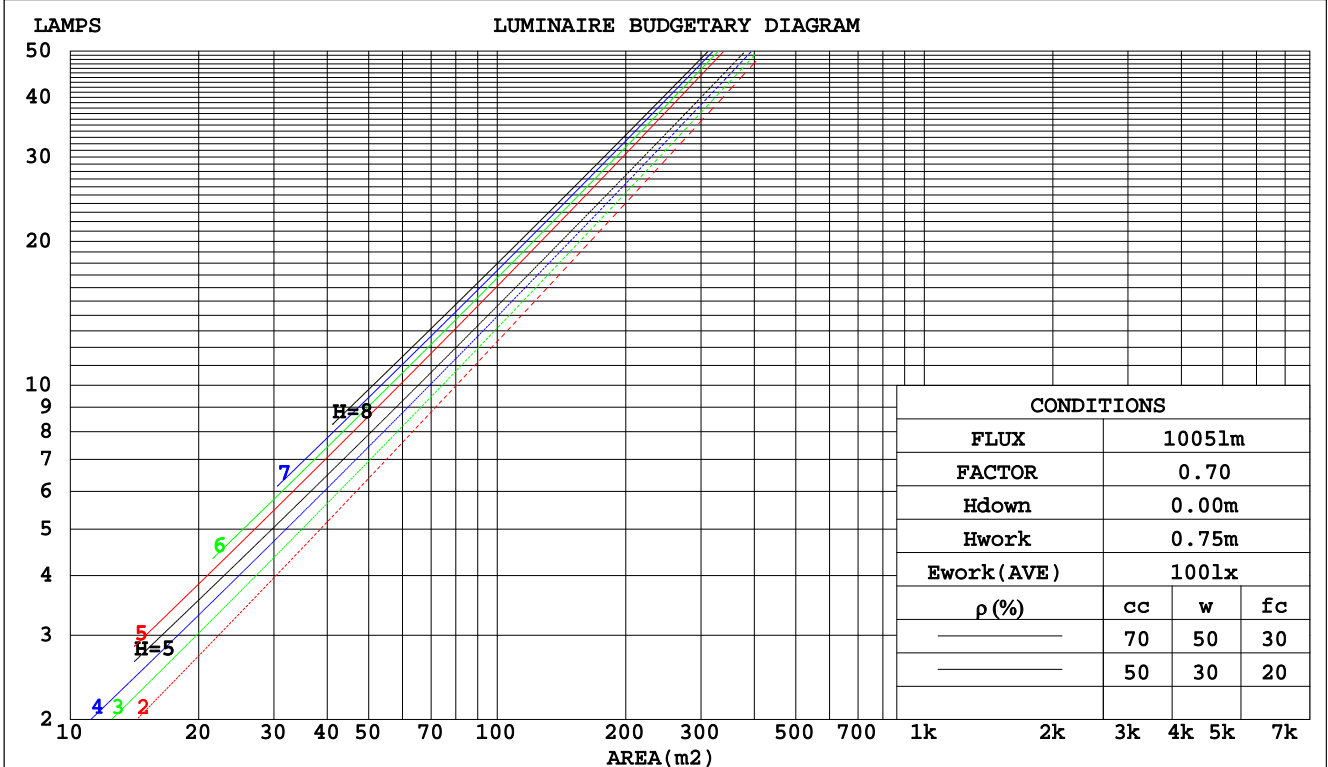
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**CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM**

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SPEC.:4000K	DIM.: φ50mm*H40mm	
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pcc	80%			70%			50%			30%			10%			0
	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρw																
ρfc																
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	1.00	.99	.98	.97	.95
2.0	1.06	1.03	.90	1.04	1.01	.99	1.01	.99	.97	.98	.96	.95	.96	.94	.93	.91
3.0	1.01	.97	.94	.90	.96	.93	.97	.94	.92	.95	.92	.90	.93	.91	.89	.87
4.0	.97	.92	.89	.95	.91	.88	.93	.90	.87	.92	.89	.86	.90	.87	.85	.84
5.0	.93	.88	.85	.92	.88	.85	.90	.87	.84	.89	.86	.83	.87	.85	.82	.81
6.0	.89	.85	.82	.89	.84	.81	.87	.84	.81	.86	.83	.80	.85	.82	.80	.79
7.0	.86	.82	.79	.86	.81	.78	.85	.81	.78	.84	.80	.78	.83	.80	.77	.76
8.0	.84	.79	.76	.83	.79	.76	.82	.78	.76	.81	.78	.75	.80	.77	.75	.74
9.0	.81	.77	.74	.81	.77	.74	.80	.76	.74	.79	.76	.73	.78	.75	.73	.72
10.0	.79	.75	.72	.79	.74	.72	.78	.74	.72	.77	.74	.71	.77	.73	.71	.70



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 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
 Humidity:56%  
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WEC AND CCEC

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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	.153	.087	.027	.146	.083	.026	.133	.077	.024	.122	.070	.023	.111	.065	.021	
2.0	.142	.078	.024	.136	.075	.023	.126	.070	.022	.116	.065	.020	.108	.061	.019	
3.0	.132	.070	.021	.127	.068	.020	.118	.064	.019	.110	.060	.019	.103	.057	.018	
4.0	.123	.064	.019	.119	.062	.018	.111	.059	.018	.105	.056	.017	.098	.053	.016	
5.0	.115	.058	.017	.111	.057	.017	.105	.055	.016	.099	.052	.016	.094	.050	.015	
6.0	.108	.054	.015	.105	.053	.015	.100	.051	.015	.094	.049	.014	.090	.047	.014	
7.0	.102	.050	.014	.099	.049	.014	.095	.048	.014	.090	.046	.013	.086	.045	.013	
8.0	.096	.047	.013	.094	.046	.013	.090	.045	.013	.086	.044	.013	.082	.042	.012	
9.0	.091	.044	.012	.090	.044	.012	.086	.042	.012	.082	.041	.012	.079	.040	.012	
10.0	.087	.042	.012	.085	.041	.012	.082	.040	.011	.079	.039	.011	.076	.038	.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	.169	.158	.147	.145	.135	.126	.099	.093	.087	.057	.054	.051	.018	.017	.016	
2.0	.152	.133	.116	.130	.114	.100	.089	.079	.070	.052	.046	.041	.017	.015	.013	
3.0	.138	.113	.094	.118	.098	.081	.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	.115	.086	.064	.099	.074	.056	.068	.052	.040	.040	.031	.023	.013	.010	.008	
6.0	.106	.076	.054	.091	.066	.047	.063	.046	.033	.037	.027	.020	.012	.009	.007	
7.0	.099	.068	.046	.085	.059	.040	.059	.041	.029	.034	.024	.017	.011	.008	.006	
8.0	.092	.061	.040	.079	.053	.035	.055	.037	.025	.032	.022	.015	.010	.007	.005	
9.0	.086	.056	.035	.074	.048	.030	.052	.034	.022	.030	.020	.013	.010	.007	.004	
10.0	.081	.051	.031	.070	.044	.027	.049	.031	.019	.028	.018	.011	.009	.006	.004	

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 V2.0.362  
 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:1004.95x1 lm		
NAME: M3-11W-940-15	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	17.8	18.5	18.0	18.7	18.8	17.7	18.4	17.9	18.5	18.7
3H	18.9	19.5	19.1	19.7	19.9	18.8	19.5	19.1	19.7	19.9
4H	19.3	20.0	19.6	20.2	20.4	19.3	20.0	19.6	20.2	20.4
6H	19.7	20.3	20.0	20.6	20.8	19.7	20.3	20.0	20.5	20.8
8H	19.8	20.4	20.1	20.7	20.9	19.8	20.4	20.1	20.6	20.9
12H	19.8	20.4	20.2	20.7	20.9	19.8	20.3	20.1	20.6	20.9
4H 2H	18.2	18.9	18.5	19.1	19.3	18.2	18.8	18.4	19.0	19.2
3H	19.5	20.1	19.8	20.3	20.6	19.5	20.1	19.8	20.3	20.6
4H	20.1	20.6	20.5	20.9	21.2	20.1	20.6	20.5	20.9	21.2
6H	20.6	21.1	21.0	21.4	21.7	20.6	21.0	21.0	21.4	21.7
8H	20.8	21.2	21.1	21.5	21.9	20.7	21.1	21.1	21.5	21.8
12H	20.8	21.2	21.2	21.5	21.9	20.7	21.1	21.1	21.5	21.9
8H 4H	20.3	20.8	20.7	21.1	21.5	20.3	20.8	20.7	21.1	21.5
6H	20.9	21.3	21.4	21.7	22.1	20.9	21.3	21.3	21.6	22.1
8H	21.1	21.5	21.6	21.9	22.3	21.1	21.4	21.5	21.8	22.2
12H	21.2	21.5	21.7	21.9	22.4	21.1	21.4	21.6	21.8	22.3
12H 4H	20.3	20.7	20.7	21.1	21.5	20.3	20.7	20.7	21.1	21.5
6H	21.0	21.3	21.4	21.7	22.1	20.9	21.2	21.4	21.7	22.1
8H	21.2	21.4	21.6	21.9	22.4	21.1	21.4	21.6	21.8	22.3
Variations with the observer position at spacings:										
S = 1.0H	+ 0.3 / - 0.4					+ 0.3 / - 0.4				
1.5H	+ 0.3 / - 0.3					+ 0.3 / - 0.4				
2.0H	+ 0.4 / - 0.4					+ 0.4 / - 0.4				

CIE Pub.117, 1005 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 0.0)

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 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:1004.95x1 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	80	76	72
0.80	94	88	84	93	88	84	92	87	84	80
1.00	98	93	89	98	92	89	96	92	88	84
1.25	102	97	93	101	96	93	99	95	92	88
1.50	105	100	97	104	100	96	102	98	95	91
2.00	108	104	100	107	103	99	104	101	98	93
2.50	110	106	103	108	105	102	105	102	100	94
3.00	111	108	105	110	106	104	106	104	102	95
4.00	113	111	108	111	109	107	108	106	104	97
5.00	115	112	111	113	111	109	109	107	106	98
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNOM = 1.25			

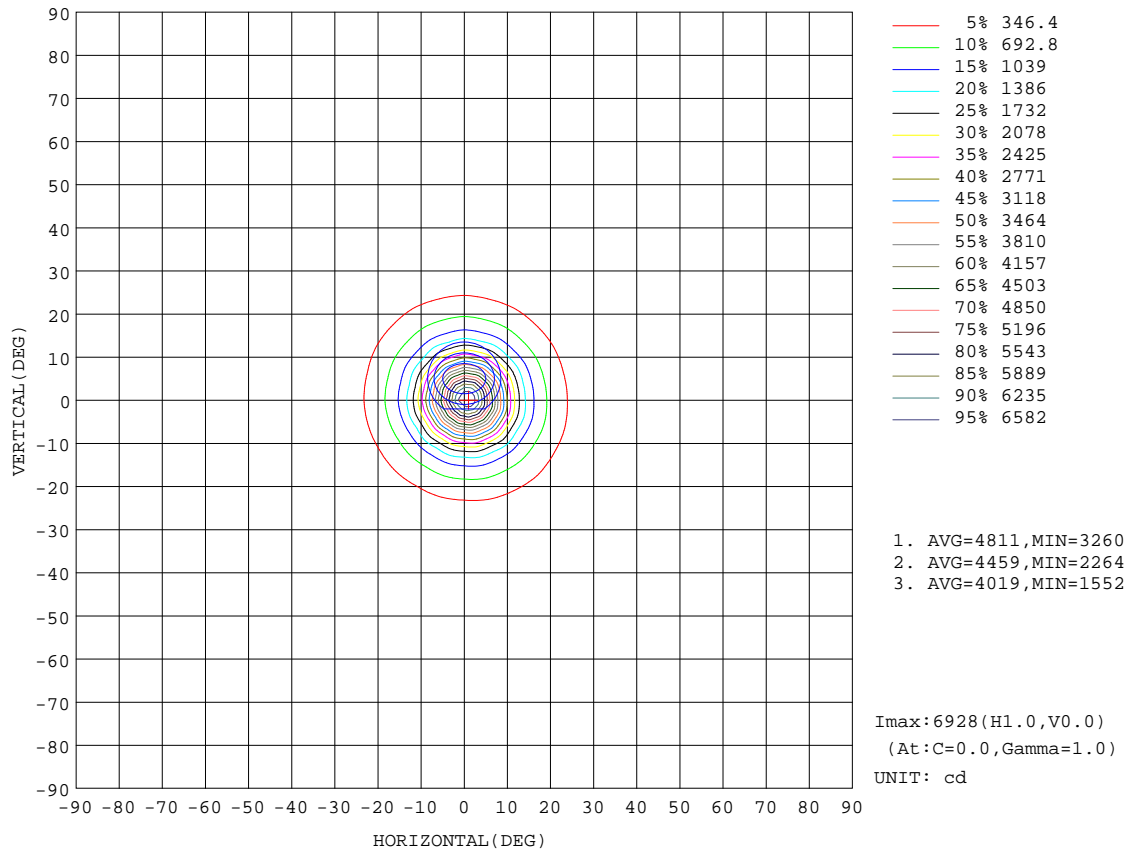
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**ISOCANDELA DIAGRAM**

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SPEC.:4000K	DIM.: φ50mm*H40mm	
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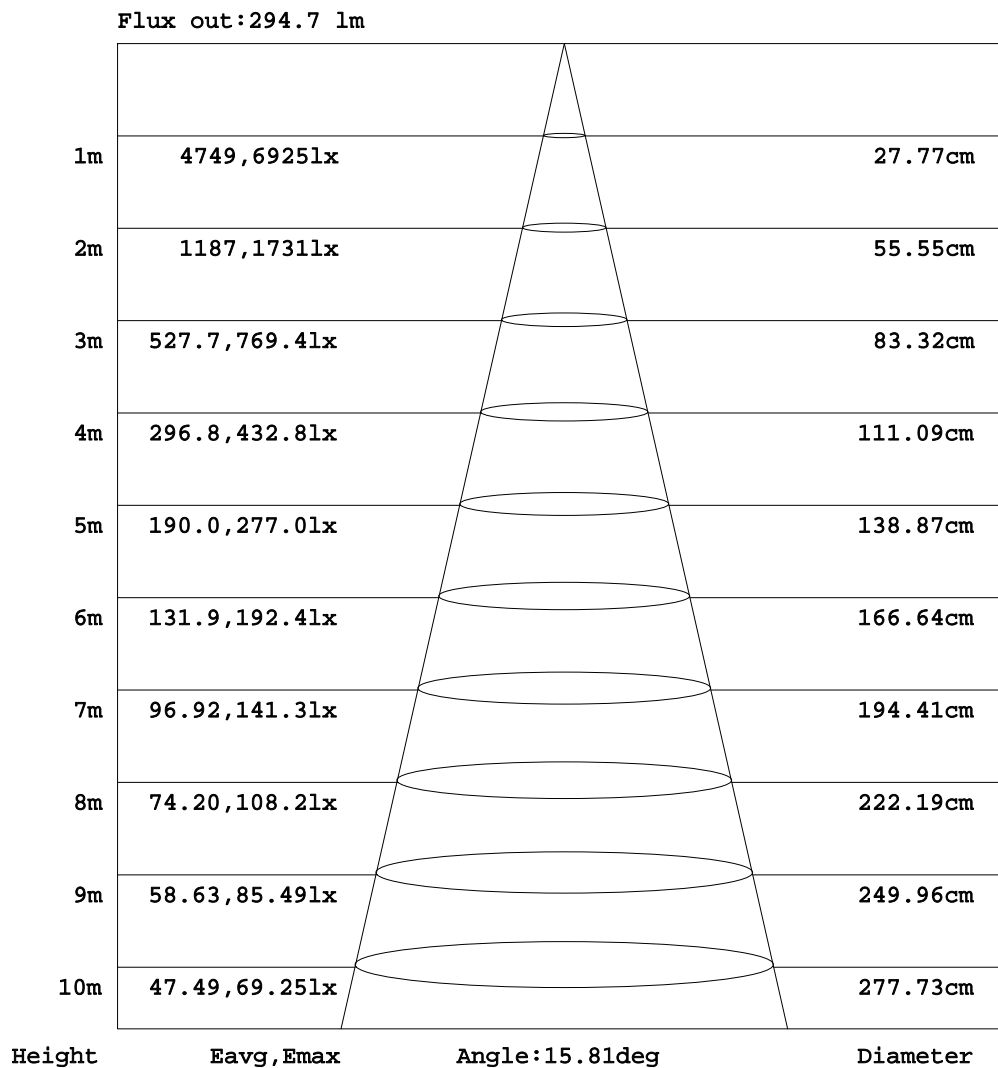


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**AAI Figure**

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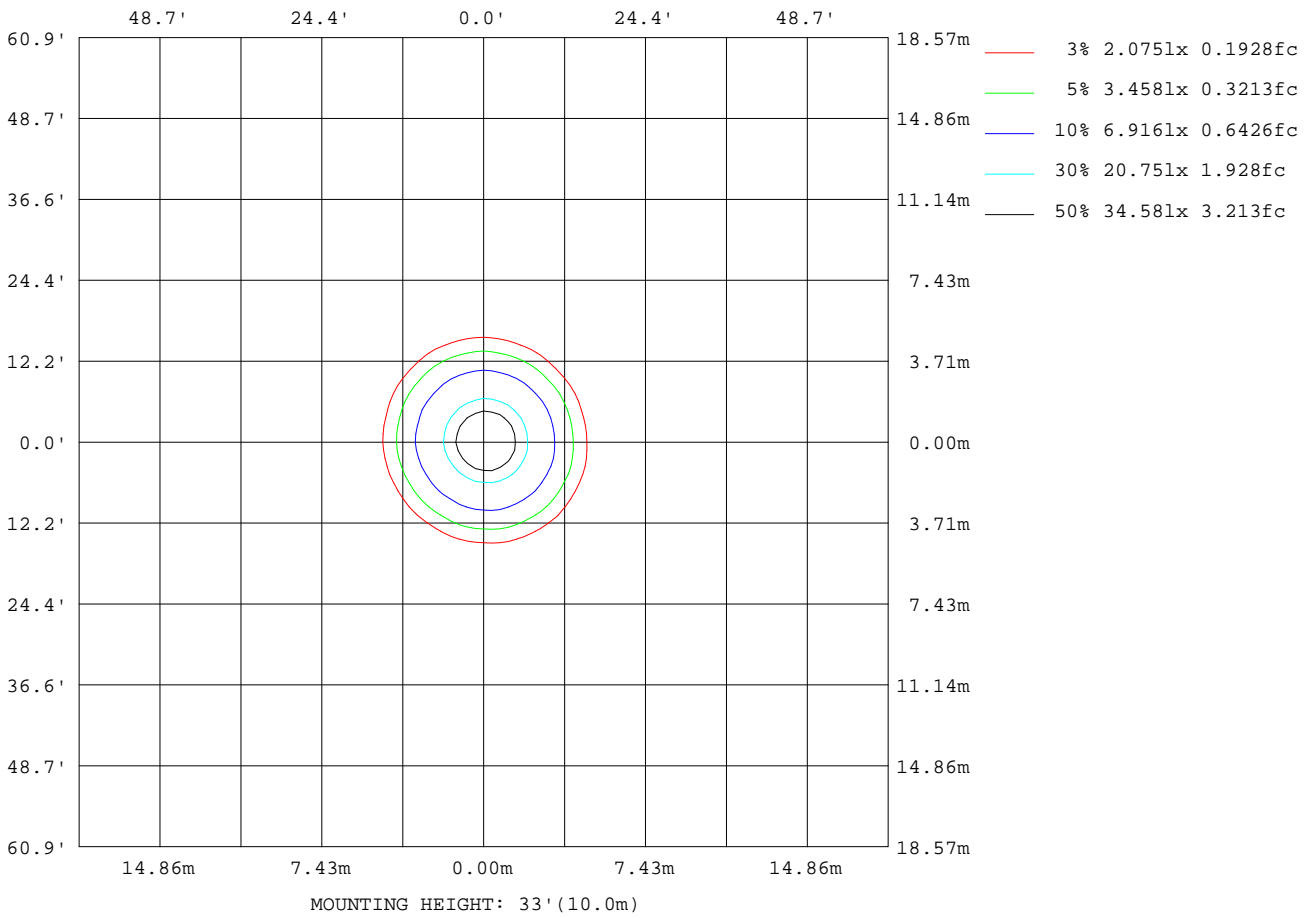
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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**ISOLUX DIAGRAM**

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LED Avg.L Report

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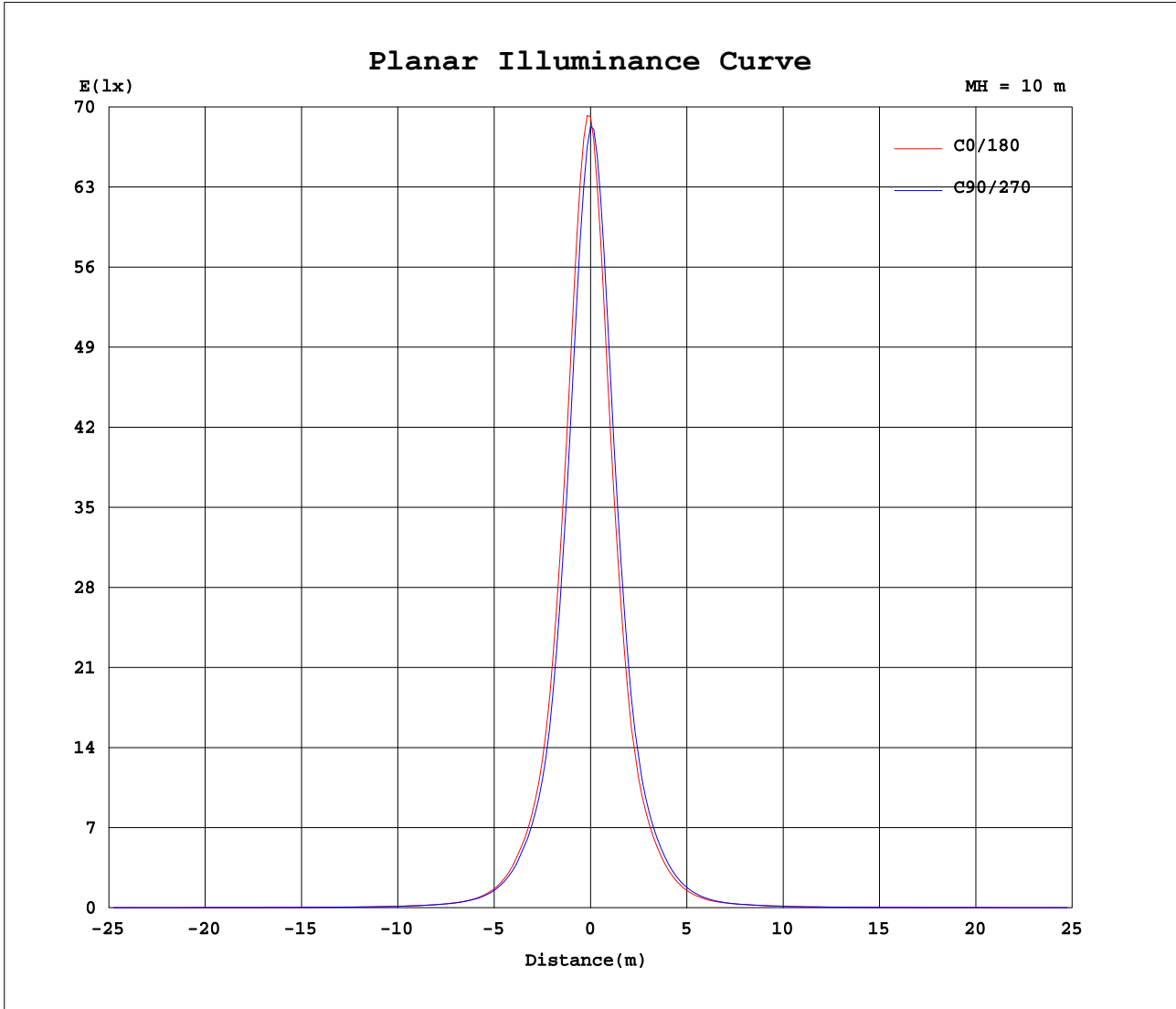
AvgL	cd/m2
L_0~180 (65) av	19164
L_0~180 (75) av	16850
L_0~180 (85) av	7126
L_90~270 (65) av	18602
L_90~270 (75) av	16414
L_90~270 (85) av	6900
L_45 (65) av	18983
L_45 (75) av	16507
L_45 (85) av	6436

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

Table with 3 columns: NAME, TYPE, SERIAL No., SPEC., DIM., MFR.

Table--1: Luminous Intensity Data Table with C (DEG) and gamma (DEG) axes and UNIT: cd. The table contains 18 columns of intensity values for various angles.

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:1004.95x1 lm		
NAME: M3-11W-940-15	TYPE:Downlight	SERIAL No.:
SPEC.:4000K	DIM.: $\phi$ 50mm*H40mm	
MFR.: NEKO LIGHTING AG		

Table--2

UNIT: cd

C (DEG) γ (DEG)	285	300	315	330	345															
0	6839	6818	6843	6831	6881															
5	5223	5410	5364	5464	5410															
10	2677	2809	2755	2825	2746															
15	1223	1269	1241	1265	1226															
20	630	632	622	624	617															
25	301	303	292	297	289															
30	148	151	143	148	142															
35	82.6	82.1	80.4	81.1	80.1															
40	55.3	55.2	54.7	55.1	54.6															
45	39.0	39.6	39.4	39.9	39.9															
50	29.6	30.2	30.1	30.6	30.7															
55	23.6	24.0	24.2	24.5	24.5															
60	19.2	19.8	20.0	20.3	20.1															
65	14.9	15.2	15.6	15.7	15.7															
70	11.3	11.5	11.7	11.9	11.8															
75	8.05	8.16	8.24	8.46	8.39															
80	5.00	5.00	5.04	5.20	5.20															
85	1.29	1.33	1.32	1.37	1.26															
90	0.05	0.05	0.05	0.05	0.05															

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: