

M3-11W-940-60



Light Output Ratio:	100.0%	
Luminaire Power:	12.92 W	
SHR Nominal:	0.75	Calculated using the TM5
SHR Maximum:	0.90	fine grid method.

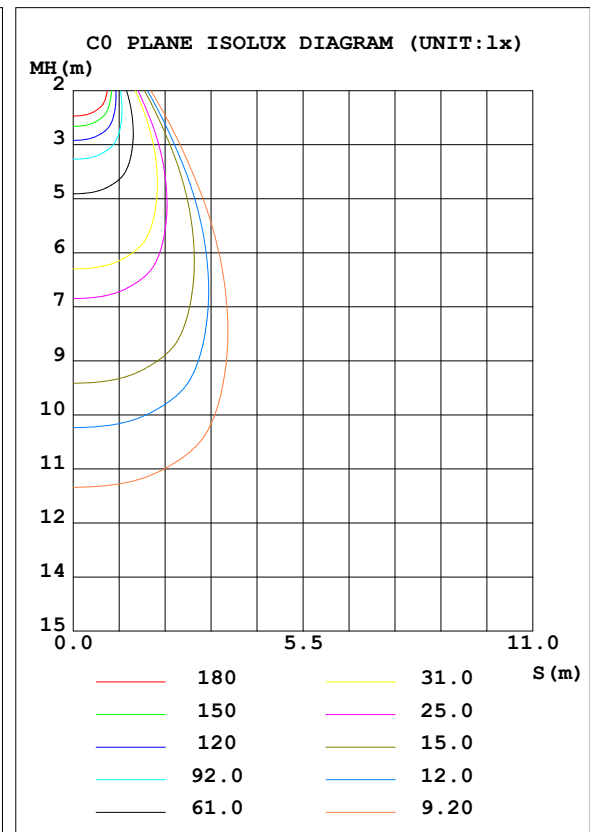
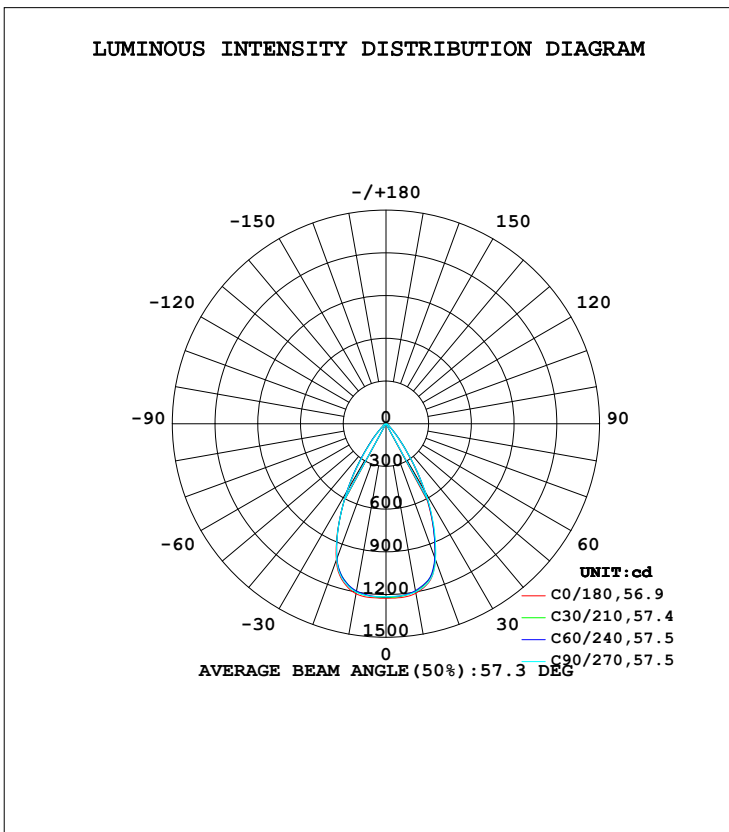
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Myles
Test Date: 2019-03-02

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:1087.54x1 lm		
NAME: M3-11W-940-60	TYPE:Downlight	SERIAL No.:
SPEC.:4000K	DIM.: φ50mm*H40mm	
MFR.: NEKO LIGHTING AG		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 84.17 lm/W			
MODEL	CITIZEN-4000K	I _{max} (cd)	1226	S/MH (C0/180)	0.86
NOMINAL POWER (W)	13	LOR (%)	100.0	S/MH (C90/270)	0.86
RATED VOLTAGE (V)	220	TOTAL FLUX (lm)	1087.5	η UP, DN (C0-180)	0.0,50.1
NOMINAL FLUX (lm)	1087.54	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0,49.9
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	0.75
TEST VOLTAGE (V)	220	η down (%)	100.0	CIBSE SHR MAX	0.90



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ZONAL FLUX DIAGRAM

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γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	1208	1193	1199	1209	1212	1193	1201	1205	0- 10	115.6	115.6	10.6,10.6
20	1009	1009	1018	1021	1021	998.5	1012	1001	10- 20	318.3	433.9	39.9,39.9
30	531.3	554.2	550.7	533.4	541.0	542.2	546.2	517.0	20- 30	354.6	788.5	72.5,72.5
40	145.9	164.9	150.2	145.4	159.4	162.4	153.7	135.8	30- 40	197.1	985.6	90.6,90.6
50	34.50	38.22	34.66	35.75	38.49	36.89	36.83	33.53	40- 50	59.49	1045	96.1,96.1
60	17.14	18.27	17.61	18.45	18.63	17.65	18.13	17.15	50- 60	22.03	1067	98.1,98.1
70	8.800	9.168	8.911	9.666	9.712	9.248	9.299	8.948	60- 70	13.30	1080	99.3,99.3
80	2.561	2.738	2.673	2.928	3.051	2.890	2.926	2.667	70- 80	6.093	1087	99.9,99.9
90	0.0700	0.0678	0.0678	0.0612	0.0415	0.0394	0.0415	0.0415	80- 90	0.9982	1088	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): 1024.7 lm

%lum = 94.2%
%lamp = 94.2%

Conical surface Flux(120deg): 1067.1 lm

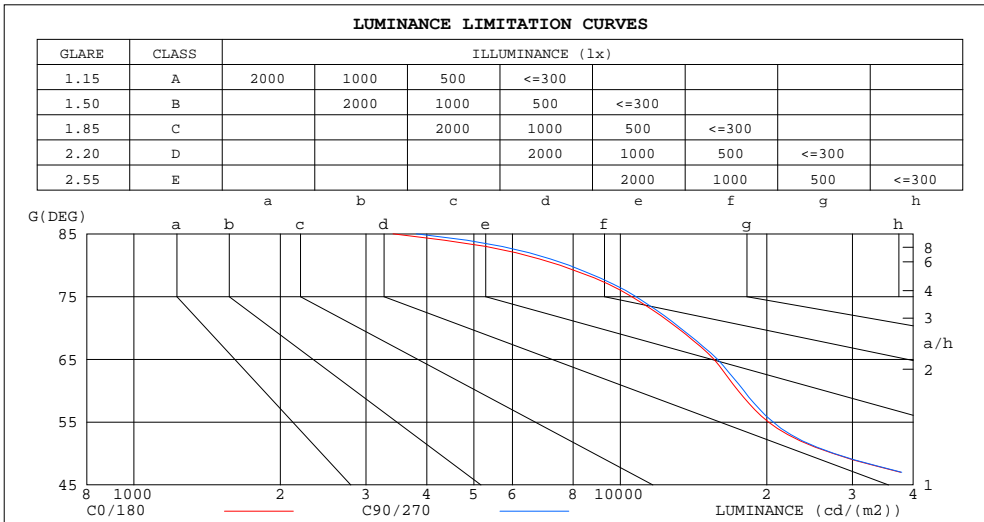
%lum = 98.1%
%lamp = 98.1%

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LUMINANCE LIMITATION CURVES

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LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	3410	3808
80	7516	7843
75	10548	10763
70	13110	13277
65	15576	15837
60	17464	17945
55	20158	20622
50	27347	27475
45	49822	49226

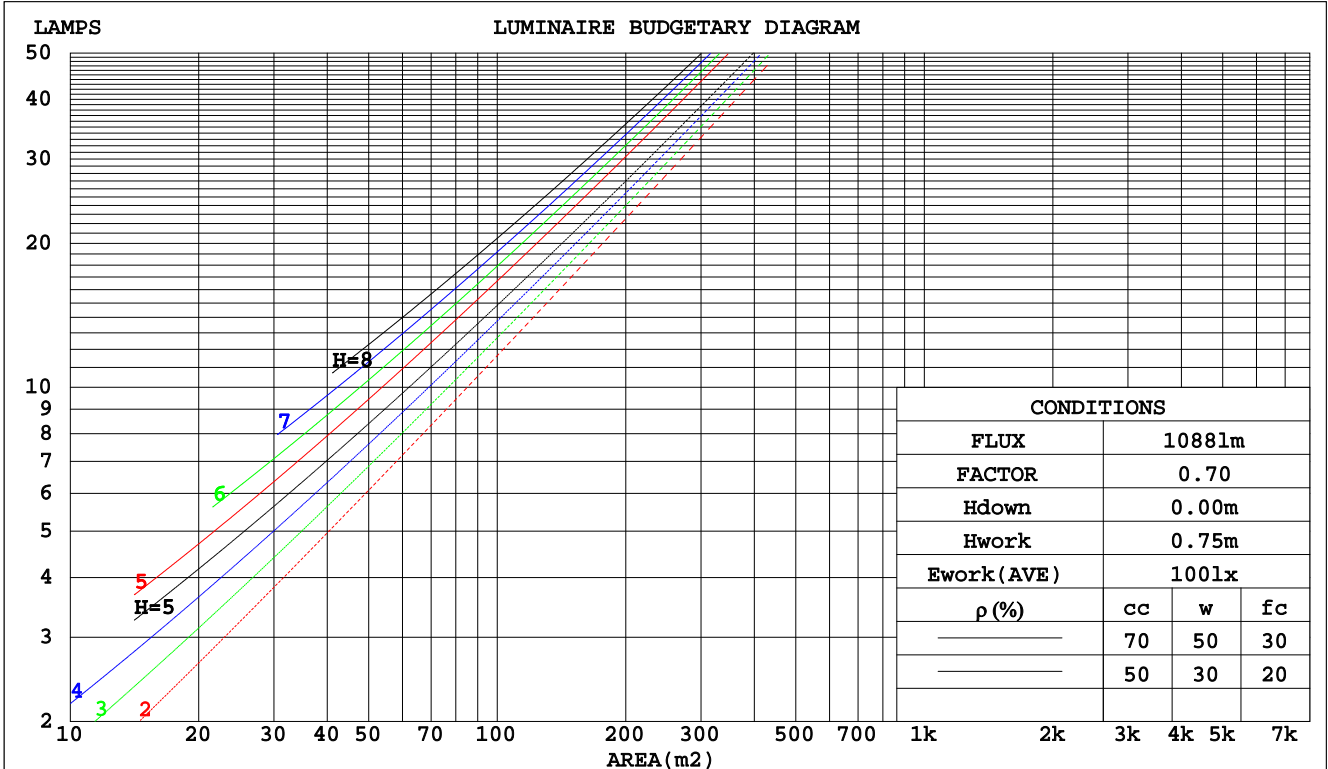
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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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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															
	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	1.11	1.08	1.06	1.08	1.06	1.04	1.04	1.02	1.01	1.01	.99	.98	.97	.96	.95	.93
2.0	1.03	.99	.95	1.01	.97	.94	.98	.95	.92	.95	.92	.90	.92	.90	.88	.86
3.0	.96	.91	.87	.94	.90	.86	.92	.88	.84	.89	.86	.83	.87	.84	.82	.80
4.0	.89	.84	.79	.88	.83	.79	.86	.82	.78	.84	.80	.77	.82	.79	.76	.75
5.0	.84	.78	.73	.83	.77	.73	.81	.76	.72	.79	.75	.72	.78	.74	.71	.70
6.0	.79	.73	.68	.78	.72	.68	.76	.71	.68	.75	.70	.67	.74	.70	.67	.65
7.0	.74	.68	.64	.73	.68	.64	.72	.67	.63	.71	.66	.63	.70	.66	.62	.61
8.0	.70	.64	.60	.69	.63	.60	.68	.63	.59	.67	.62	.59	.66	.62	.59	.57
9.0	.66	.60	.56	.65	.60	.56	.64	.59	.56	.64	.59	.56	.63	.58	.55	.54
10.0	.62	.57	.53	.62	.56	.53	.61	.56	.53	.60	.56	.52	.60	.55	.52	.51



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WEC AND CCEC

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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	.183	.104	.033	.176	.100	.032	.163	.094	.030	.152	.087	.028	.141	.082	.026	
2.0	.174	.096	.029	.169	.093	.029	.158	.088	.027	.148	.083	.026	.139	.079	.025	
3.0	.166	.088	.026	.161	.086	.026	.152	.082	.025	.143	.079	.024	.136	.075	.023	
4.0	.157	.082	.024	.153	.080	.024	.145	.077	.023	.138	.074	.022	.131	.071	.022	
5.0	.150	.076	.022	.146	.075	.022	.139	.072	.021	.133	.070	.021	.127	.068	.020	
6.0	.142	.071	.020	.139	.070	.020	.133	.068	.020	.128	.066	.020	.122	.064	.019	
7.0	.136	.067	.019	.133	.066	.019	.128	.065	.019	.123	.063	.018	.118	.061	.018	
8.0	.130	.063	.018	.127	.063	.018	.123	.061	.017	.118	.060	.017	.114	.058	.017	
9.0	.124	.060	.017	.122	.059	.017	.118	.058	.017	.114	.057	.016	.110	.056	.016	
10.0	.119	.057	.016	.117	.057	.016	.113	.055	.016	.110	.054	.015	.106	.053	.015	

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	.172	.157	.144	.147	.135	.124	.100	.093	.086	.058	.054	.050	.019	.017	.016	
2.0	.157	.132	.112	.134	.114	.097	.092	.079	.068	.053	.046	.040	.017	.015	.013	
3.0	.144	.114	.089	.124	.098	.077	.085	.068	.054	.049	.040	.032	.016	.013	.010	
4.0	.134	.099	.072	.115	.085	.063	.079	.060	.044	.046	.035	.026	.015	.011	.009	
5.0	.126	.087	.059	.108	.076	.051	.074	.053	.036	.043	.031	.022	.014	.010	.007	
6.0	.118	.078	.049	.102	.068	.043	.070	.047	.030	.041	.028	.018	.013	.009	.006	
7.0	.112	.071	.042	.096	.061	.036	.066	.043	.026	.039	.025	.015	.012	.008	.005	
8.0	.106	.064	.036	.091	.056	.031	.063	.039	.022	.037	.023	.013	.012	.008	.004	
9.0	.101	.059	.031	.087	.051	.027	.060	.036	.019	.035	.021	.011	.011	.007	.004	
10.0	.096	.055	.027	.083	.048	.024	.058	.033	.017	.034	.020	.010	.011	.007	.003	

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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:

UGR(Unified Glare Rating) Table

Test:U:220.6V I:0.0654A P:12.92W PF:0.8958 Freq:49.90Hz Lamp Flux:1087.54x1 lm		
NAME: M3-11W-940-60	TYPE:Downlight	SERIAL No.:
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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	21.8	22.8	22.0	22.9	23.1	22.0	22.9	22.2	23.1	23.3
3H	21.9	22.7	22.1	22.9	23.2	22.0	22.9	22.3	23.1	23.3
4H	21.9	22.7	22.1	22.9	23.1	22.0	22.8	22.3	23.1	23.3
6H	21.8	22.6	22.1	22.9	23.1	22.0	22.8	22.3	23.0	23.3
8H	21.8	22.6	22.1	22.8	23.1	21.9	22.7	22.3	23.0	23.2
12H	21.8	22.5	22.1	22.8	23.0	21.9	22.6	22.2	22.9	23.2
4H 2H	21.7	22.5	22.0	22.8	23.0	21.8	22.7	22.1	22.9	23.1
3H	21.8	22.5	22.1	22.8	23.1	22.0	22.7	22.3	22.9	23.2
4H	21.9	22.5	22.2	22.8	23.1	22.0	22.6	22.3	22.9	23.3
6H	21.9	22.4	22.2	22.8	23.1	22.0	22.6	22.4	22.9	23.2
8H	21.8	22.4	22.2	22.7	23.1	22.0	22.5	22.4	22.8	23.2
12H	21.8	22.3	22.2	22.7	23.0	21.9	22.4	22.3	22.8	23.2
8H 4H	21.8	22.3	22.2	22.7	23.0	21.9	22.5	22.3	22.8	23.2
6H	21.8	22.3	22.2	22.6	23.1	21.9	22.4	22.4	22.8	23.2
8H	21.8	22.2	22.2	22.6	23.0	21.9	22.3	22.4	22.7	23.2
12H	21.8	22.1	22.2	22.5	23.0	21.9	22.2	22.4	22.7	23.1
12H 4H	21.7	22.2	22.2	22.6	23.0	21.9	22.4	22.3	22.7	23.1
6H	21.8	22.2	22.2	22.6	23.0	21.9	22.3	22.3	22.7	23.1
8H	21.8	22.1	22.2	22.5	23.0	21.9	22.2	22.4	22.7	23.1
Variations with the observer position at spacings:										
S = 1.0H	+ 2.2 / - 3.7					+ 2.3 / - 3.7				
1.5H	+ 4.0 / - 3.3					+ 4.2 / - 3.3				
2.0H	+ 3.0 / - 1.4					+ 2.9 / - 1.4				

CIE Pub.117, 1088 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 0.3)

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UTILIZATION FACTORS TABLE

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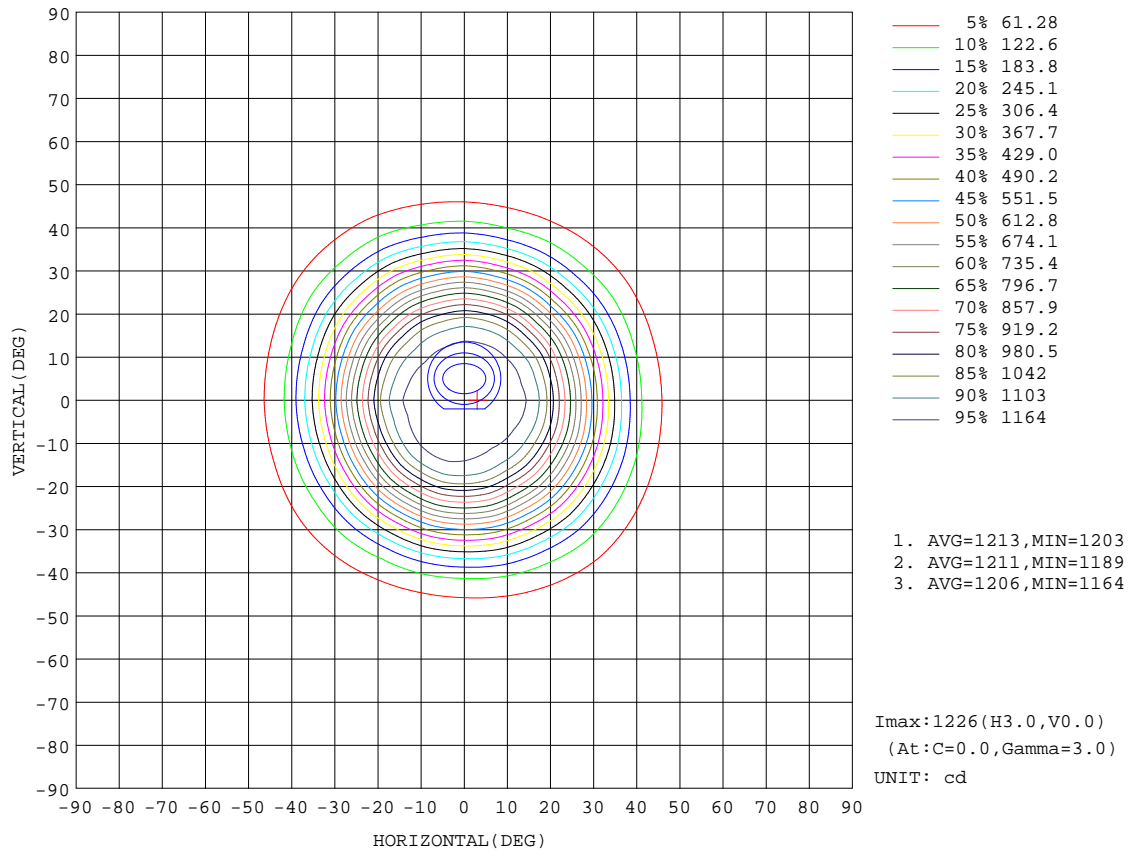
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	86	79	75	85	79	75	84	79	75	71
0.80	93	87	83	93	87	83	91	86	83	79
1.00	98	92	88	97	92	88	96	92	88	83
1.25	102	97	93	101	96	93	99	95	92	88
1.50	105	100	97	104	99	96	102	98	95	90
2.00	108	104	100	106	102	99	104	100	98	93
2.50	110	106	103	108	104	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	110	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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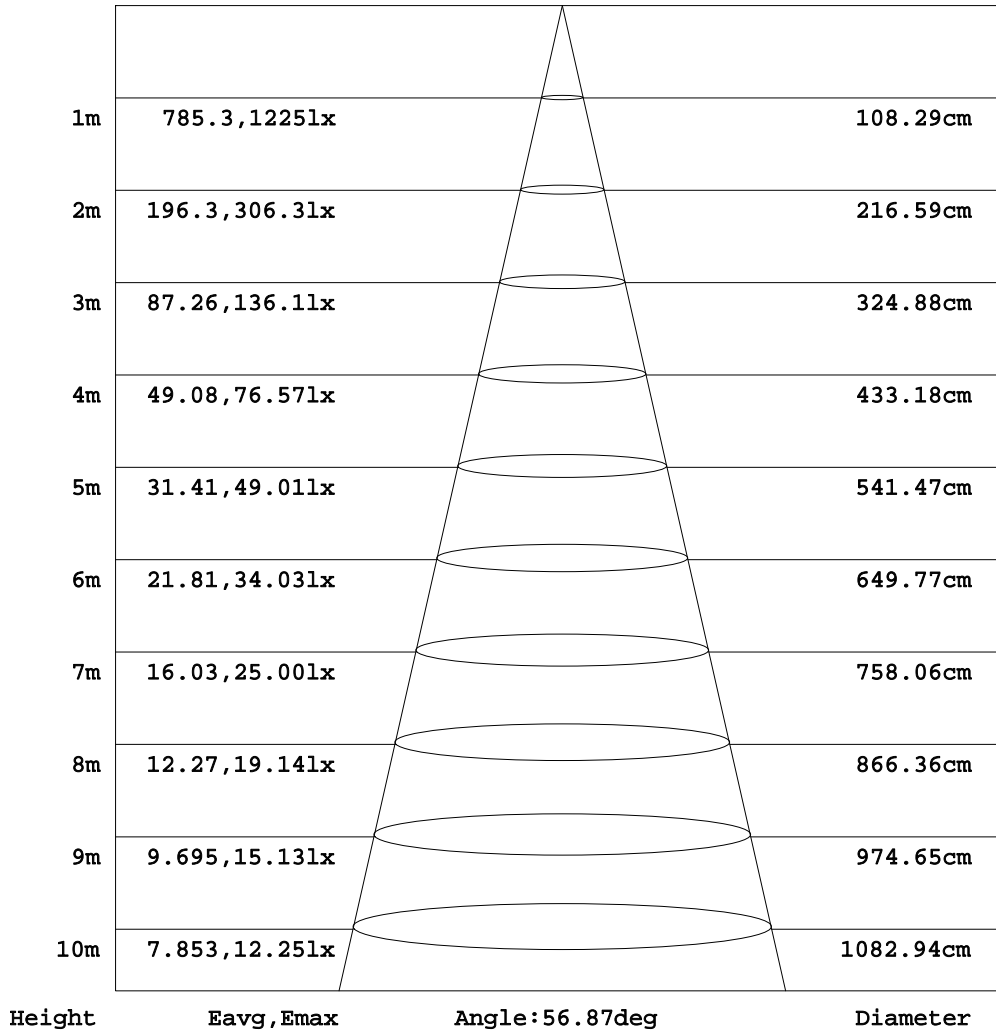
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AAI Figure

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Flux out:758.1 lm



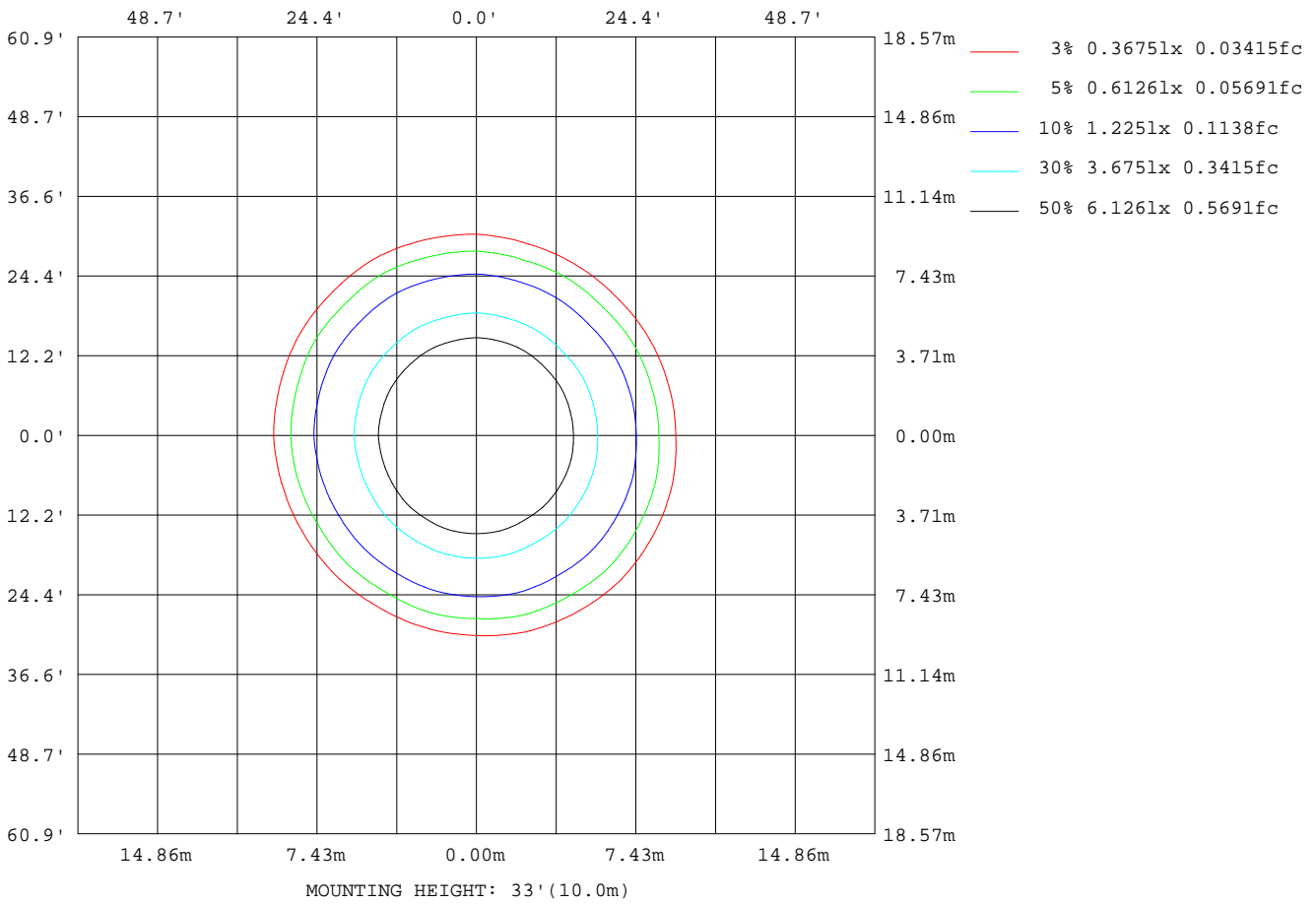
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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ISOLUX DIAGRAM

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LED Avg.L Report

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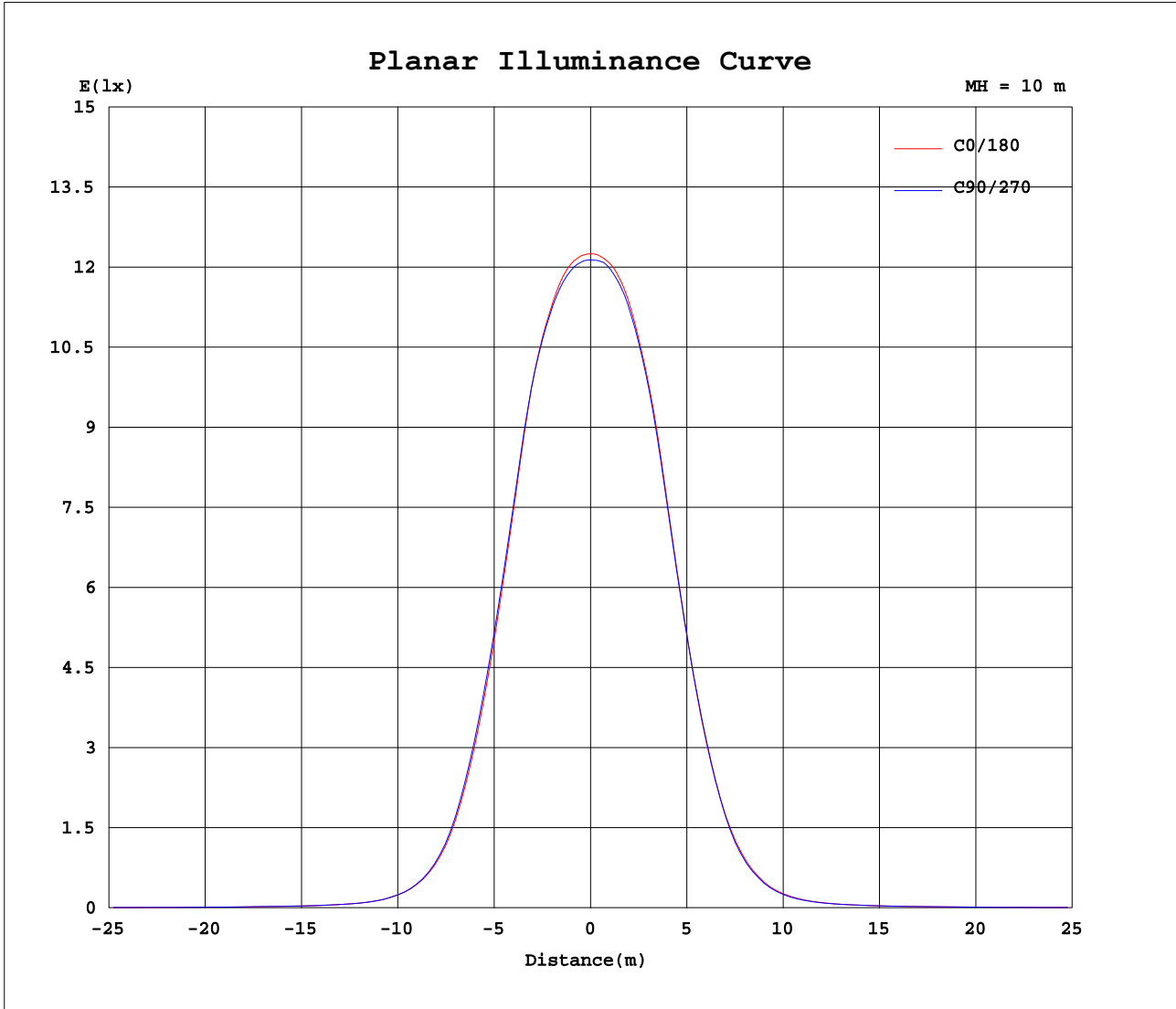
AvgL	cd/m2
L_0~180 (65) av	16261
L_0~180 (75) av	11184
L_0~180 (85) av	3997
L_90~270 (65) av	16133
L_90~270 (75) av	11058
L_90~270 (85) av	4028
L_45 (65) av	16181
L_45 (75) av	11163
L_45 (85) av	3687

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

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:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.6V I:0.0654A P:12.92W PF:0.8958 Freq:49.90Hz Lamp Flux:1087.54x1 lm		
NAME: M3-11W-940-60	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	1225	1222	1219	1218	1216	1214	1214	1213	1212	1211	1210	1209	1225	1222	1219	1218	1216	1214	1214
5	1225	1220	1216	1214	1213	1212	1214	1214	1216	1215	1214	1211	1225	1220	1216	1214	1214	1215	1216
10	1208	1204	1195	1193	1191	1194	1199	1205	1209	1209	1206	1201	1212	1204	1199	1193	1193	1195	1201
15	1156	1150	1142	1140	1139	1145	1152	1160	1159	1157	1149	1141	1152	1139	1135	1129	1135	1137	1145
20	1009	1013	1007	1009	1002	1015	1018	1025	1017	1021	1006	1004	1021	1008	1009	998	1007	1000	1012
25	778	789	788	792	783	800	796	798	785	786	772	774	792	783	788	778	787	780	788
30	531	545	547	554	547	557	551	548	533	533	523	525	541	540	550	542	551	540	546
35	300	315	316	324	317	323	312	310	296	297	293	301	316	318	328	320	327	312	313
40	146	157	160	165	159	160	150	150	139	145	142	151	159	160	166	162	164	155	154
45	69.1	72.0	74.1	78.1	75.6	73.9	68.3	65.9	65.0	66.2	68.6	69.7	74.5	74.1	76.1	74.8	77.4	73.4	70.7
50	34.5	35.3	36.5	38.2	37.8	37.2	34.7	34.3	34.5	35.8	36.1	36.8	38.5	37.3	37.7	36.9	38.8	37.5	36.8
55	22.7	23.0	23.7	24.3	24.2	23.9	23.2	23.1	23.5	24.2	24.3	24.3	24.8	24.2	24.3	23.6	24.0	24.1	24.2
60	17.1	17.4	17.9	18.3	18.2	18.1	17.6	17.5	17.8	18.4	18.5	18.5	18.6	18.1	18.1	17.6	17.8	18.0	18.1
65	12.9	13.1	13.3	13.5	13.5	13.5	13.1	13.2	13.4	13.9	14.0	14.1	14.1	13.7	13.6	13.4	13.6	13.7	13.6
70	8.80	9.07	9.09	9.17	9.07	9.17	8.91	9.06	9.12	9.67	9.66	9.72	9.71	9.50	9.41	9.25	9.41	9.33	9.30
75	5.36	5.53	5.55	5.59	5.54	5.59	5.47	5.52	5.61	5.93	5.96	6.04	6.00	5.90	5.81	5.75	5.79	5.77	5.77
80	2.56	2.69	2.69	2.74	2.68	2.73	2.67	2.72	2.73	2.93	2.95	3.02	3.05	2.97	2.97	2.89	2.93	2.87	2.93
85	0.58	0.62	0.52	0.60	0.65	0.67	0.65	0.65	0.64	0.70	0.72	0.75	0.78	0.75	0.70	0.60	0.72	0.71	0.73
90	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.06	0.07	0.07	0.04	0.04	0.04	0.04	0.04	0.04	0.04

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:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.6V I:0.0654A P:12.92W PF:0.8958 Freq:49.90Hz Lamp Flux:1087.54x1 lm		
NAME: M3-11W-940-60	TYPE:Downlight	SERIAL No.:
SPEC.:4000K	DIM.: φ50mm*H40mm	
MFR.: NEKO LIGHTING AG		

Table--2 UNIT: cd

C (DEG) \ γ (DEG)	285	300	315	330	345														
0	1213	1212	1211	1210	1209														
5	1216	1216	1215	1213	1211														
10	1203	1206	1205	1203	1198														
15	1144	1146	1144	1149	1147														
20	1006	1009	1001	1012	1005														
25	778	779	766	778	774														
30	529	529	517	528	526														
35	298	295	286	296	298														
40	142	143	136	143	143														
45	66.2	63.6	63.4	64.9	66.0														
50	34.6	33.7	33.5	34.7	33.9														
55	23.3	22.7	22.8	23.2	22.4														
60	17.7	17.3	17.2	17.6	16.9														
65	13.4	13.1	12.9	13.2	12.8														
70	9.15	9.03	8.95	9.10	8.90														
75	5.64	5.52	5.41	5.52	5.42														
80	2.82	2.75	2.67	2.74	2.65														
85	0.66	0.64	0.62	0.65	0.63														
90	0.04	0.04	0.04	0.04	0.04														

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: