

M3-11W-930-60



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.

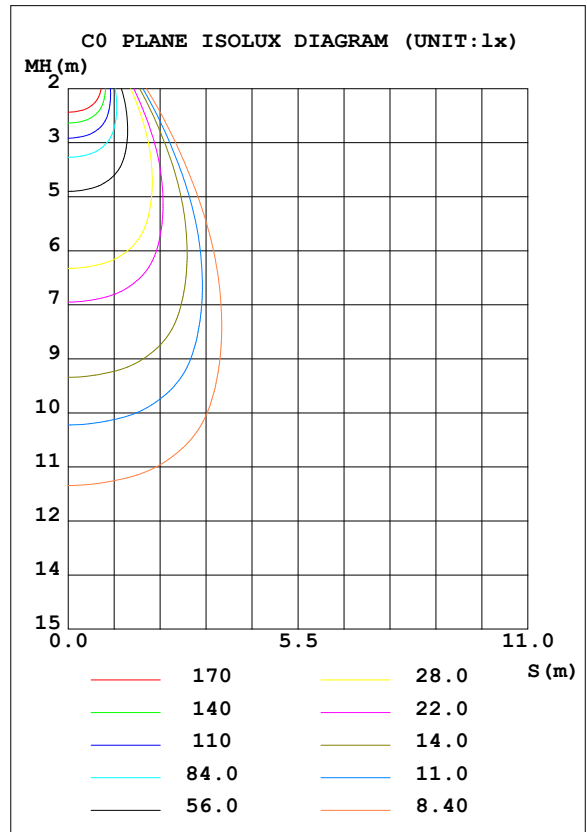
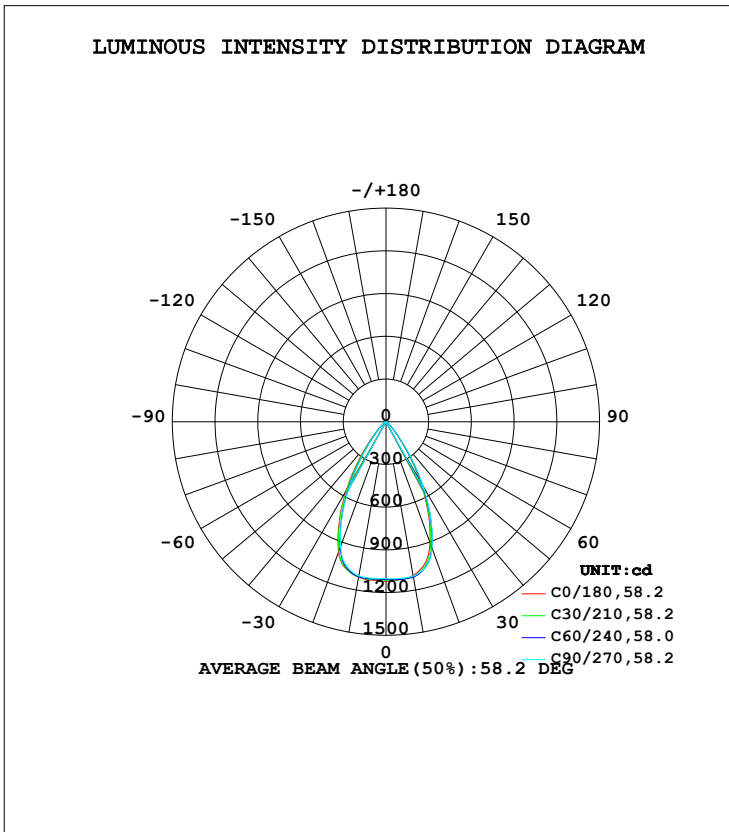
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Myles
Test Date: 2019-01-07

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:1017.16x1 lm		
NAME: M3-11W-930-60	TYPE:Downlight	SERIAL No.:
SPEC.:3000K	DIM.: φ50mm*H40mm	
MFR.: NEKO LIGHTING AG		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 78.73 lm/W			
MODEL	CITIZEN-3000K	I _{max} (cd)	1120	S/MH (C0/180)	0.89
NOMINAL POWER (W)	13	LOR (%)	100.0	S/MH (C90/270)	0.86
RATED VOLTAGE (V)	220	TOTAL FLUX (lm)	1017.2	η UP, DN (C0-180)	0.0, 49.9
NOMINAL FLUX (lm)	1017.16	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 50.1
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	1097	1108	1100	1084	1109	1106	1099	1083	0- 10	105.1	105.1	10.3,10.3
20	906.1	939.1	944.0	922.1	974.6	947.6	932.8	920.2	10- 20	291.7	396.9	39,39
30	479.9	504.9	519.5	513.8	561.1	517.3	502.5	511.6	20- 30	330.5	727.4	71.5,71.5
40	138.0	143.8	148.6	157.8	178.7	146.3	144.9	159.1	30- 40	190.2	917.6	90.2,90.2
50	33.12	33.45	34.16	36.33	42.03	33.76	33.77	36.21	40- 50	59.22	976.9	96,96
60	15.86	16.65	16.09	16.59	17.71	16.81	16.78	16.95	50- 60	20.85	997.7	98.1,98.1
70	8.189	8.908	8.655	8.716	9.304	9.142	8.937	9.090	60- 70	12.46	1010	99.3,99.3
80	2.471	2.864	2.791	2.720	3.196	2.892	2.745	2.960	70- 80	5.970	1016	99.9,99.9
90	0.0612	0.0568	0.0612	0.0568	0.0568	0.0350	0.0328	0.0350	80- 90	1.006	1017	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): 956.64 lm

%lum = 94.1%
%lamp = 94.1%

Conical surface Flux(120deg): 997.72 lm

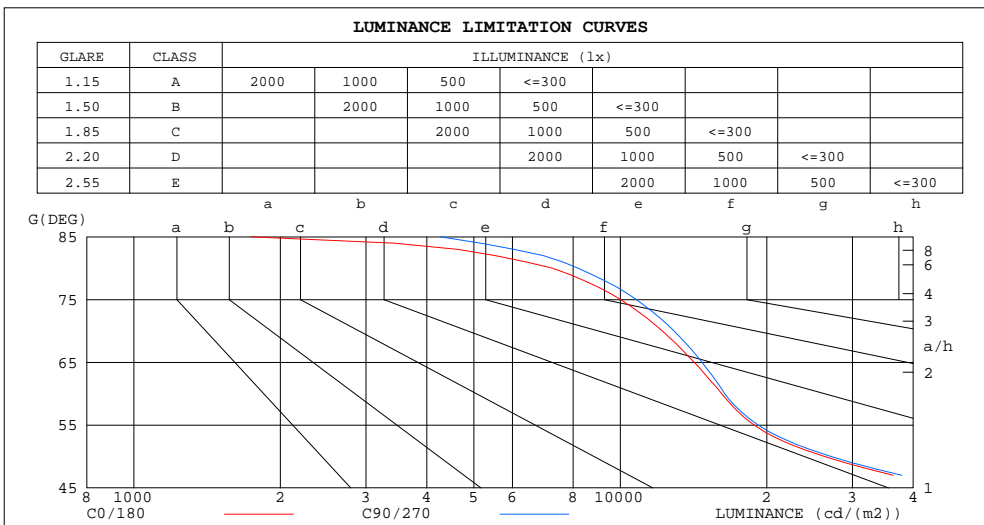
%lum = 98.1%
%lamp = 98.1%

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LUMINANCE LIMITATION CURVES

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MFR.: NEKO LIGHTING AG		



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	1742	4268
80	7252	8189
75	10018	10789
70	12200	12894
65	14189	14715
60	16159	16393
55	18847	19205
50	26252	27083
45	47356	49640

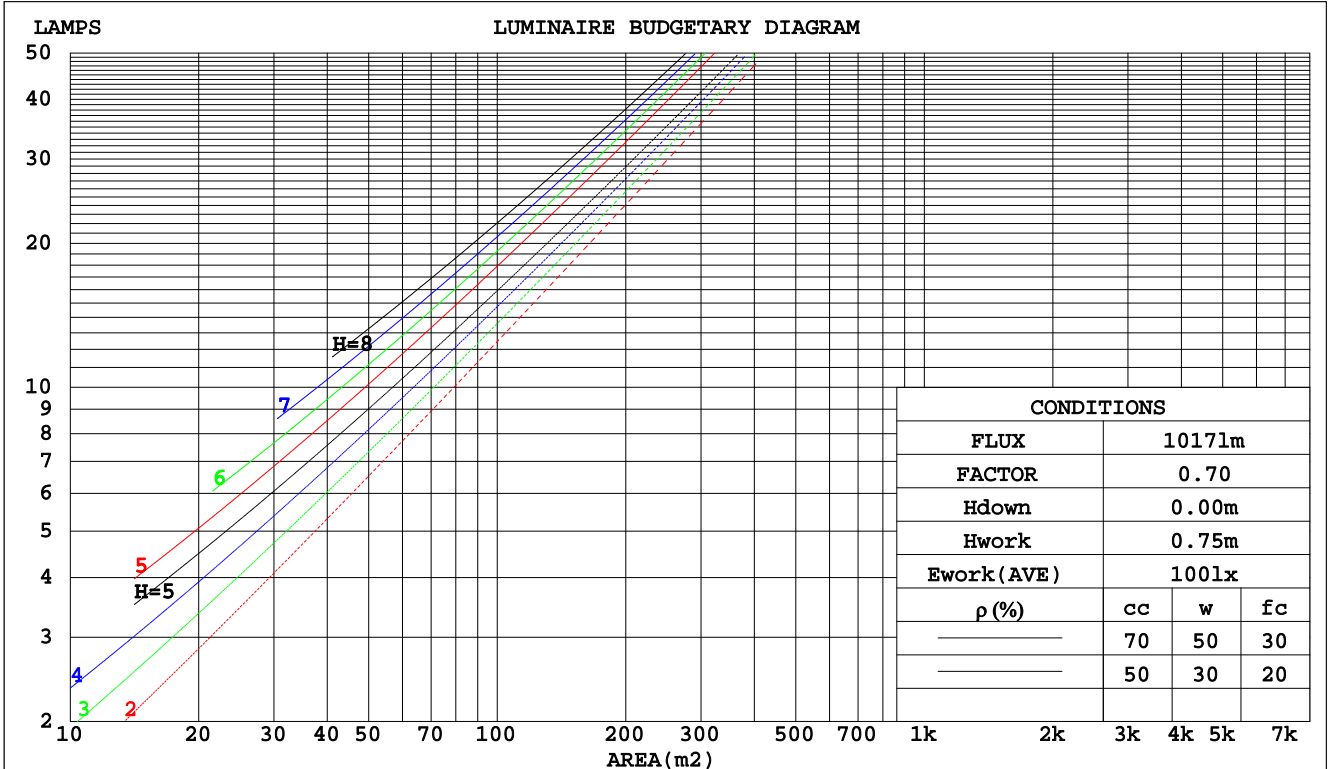
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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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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	1.10	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	.98	.95	1.01	.97	.94	.98	.94	.92	.95	.92	.90	.92	.90	.88	.86
3.0	.95	.90	.86	.94	.89	.86	.91	.87	.84	.89	.86	.83	.87	.84	.82	.80
4.0	.89	.83	.79	.88	.83	.79	.86	.81	.78	.84	.80	.77	.82	.79	.76	.74
5.0	.83	.77	.73	.82	.77	.73	.81	.76	.72	.79	.75	.71	.77	.74	.71	.69
6.0	.78	.72	.68	.77	.72	.68	.76	.71	.67	.74	.70	.67	.73	.69	.66	.65
7.0	.74	.67	.63	.73	.67	.63	.72	.66	.63	.70	.66	.62	.69	.65	.62	.61
8.0	.69	.63	.59	.69	.63	.59	.68	.62	.59	.67	.62	.59	.66	.61	.58	.57
9.0	.65	.60	.56	.65	.59	.55	.64	.59	.55	.63	.58	.55	.62	.58	.55	.54
10.0	.62	.56	.52	.62	.56	.52	.61	.56	.52	.60	.55	.52	.59	.55	.52	.50



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WEC AND CCEC

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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						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.184	.104	.033	.177	.101	.032	.164	.094	.030	.153	.088	.028	.142	.082	.027	
2.0	.176	.096	.030	.170	.094	.029	.159	.089	.028	.150	.084	.026	.141	.079	.025	
3.0	.167	.089	.027	.162	.087	.026	.153	.083	.025	.145	.079	.024	.137	.076	.023	
4.0	.159	.082	.024	.154	.081	.024	.147	.078	.023	.139	.075	.023	.132	.072	.022	
5.0	.151	.077	.022	.147	.076	.022	.140	.073	.022	.134	.071	.021	.128	.068	.021	
6.0	.144	.072	.021	.140	.071	.020	.134	.069	.020	.129	.067	.020	.123	.065	.019	
7.0	.137	.068	.019	.134	.067	.019	.129	.065	.019	.124	.063	.018	.119	.062	.018	
8.0	.131	.064	.018	.128	.063	.018	.124	.062	.018	.119	.060	.017	.115	.059	.017	
9.0	.125	.061	.017	.123	.060	.017	.119	.059	.017	.115	.057	.016	.111	.056	.016	
10.0	.120	.058	.016	.118	.057	.016	.114	.056	.016	.110	.055	.016	.107	.054	.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	.145	.114	.089	.124	.098	.077	.085	.068	.054	.049	.040	.032	.016	.013	.010	
4.0	.135	.099	.072	.115	.086	.062	.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	.119	.078	.049	.102	.068	.043	.070	.047	.030	.041	.028	.018	.013	.009	.006	
7.0	.112	.071	.042	.096	.061	.036	.067	.043	.026	.039	.025	.015	.013	.008	.005	
8.0	.106	.064	.036	.092	.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	.097	.055	.027	.083	.048	.024	.058	.034	.017	.034	.020	.010	.011	.007	.003	

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 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:1017.16x1 lm		
NAME: M3-11W-930-60	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	21.4	22.4	21.7	22.6	22.7	21.9	22.8	22.1	23.0	23.2
3H	21.5	22.4	21.8	22.6	22.8	21.9	22.8	22.2	23.0	23.2
4H	21.5	22.4	21.8	22.6	22.8	22.0	22.8	22.2	23.0	23.2
6H	21.5	22.3	21.8	22.5	22.8	21.9	22.7	22.2	23.0	23.2
8H	21.5	22.2	21.8	22.5	22.7	21.9	22.7	22.2	22.9	23.2
12H	21.4	22.1	21.7	22.4	22.7	21.9	22.6	22.2	22.9	23.1
4H 2H	21.3	22.2	21.6	22.4	22.6	21.7	22.6	22.0	22.8	23.0
3H	21.5	22.2	21.8	22.5	22.8	21.9	22.6	22.2	22.9	23.2
4H	21.5	22.2	21.9	22.5	22.8	22.0	22.6	22.3	22.9	23.2
6H	21.5	22.1	21.9	22.5	22.8	22.0	22.6	22.4	22.9	23.2
8H	21.5	22.1	21.9	22.4	22.8	22.0	22.5	22.4	22.9	23.2
12H	21.5	22.0	21.9	22.3	22.7	21.9	22.4	22.3	22.8	23.2
8H 4H	21.5	22.0	21.9	22.4	22.7	21.9	22.4	22.3	22.8	23.2
6H	21.5	22.0	22.0	22.4	22.8	22.0	22.4	22.4	22.8	23.2
8H	21.5	21.9	22.0	22.3	22.8	22.0	22.3	22.4	22.8	23.2
12H	21.5	21.8	21.9	22.2	22.7	21.9	22.3	22.4	22.7	23.2
12H 4H	21.4	21.9	21.9	22.3	22.7	21.9	22.4	22.3	22.7	23.1
6H	21.5	21.9	21.9	22.3	22.7	21.9	22.3	22.4	22.7	23.2
8H	21.5	21.8	21.9	22.3	22.7	21.9	22.3	22.4	22.7	23.2
Variations with the observer position at spacings:										
S = 1.0H	+ 2.4 / - 3.4					+ 2.5 / - 3.5				
1.5H	+ 4.3 / - 3.0					+ 4.4 / - 3.1				
2.0H	+ 3.2 / - 1.3					+ 3.2 / - 1.3				

CIE Pub.117, 1017 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 0.1)

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UTILIZATION FACTORS TABLE

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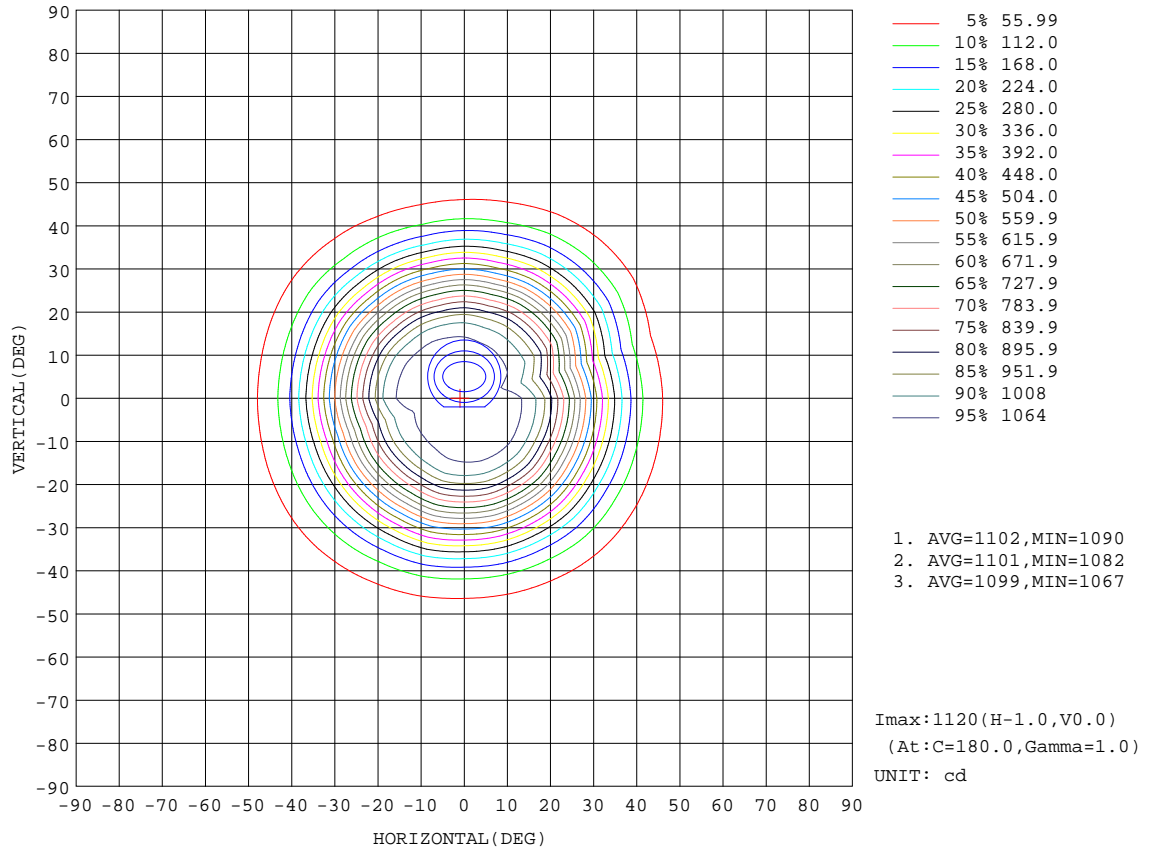
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	85	79	75	85	79	75	84	78	75	71
0.80	93	87	83	92	87	83	91	86	82	79
1.00	98	92	88	97	91	88	95	91	87	83
1.25	102	97	93	101	96	93	99	95	92	87
1.50	105	100	96	104	99	96	101	98	95	90
2.00	108	103	100	106	102	99	104	100	98	92
2.50	110	106	102	108	104	102	105	102	100	94
3.00	111	108	105	109	106	104	106	104	102	95
4.00	113	110	108	111	109	107	108	106	104	97
5.00	115	112	110	113	110	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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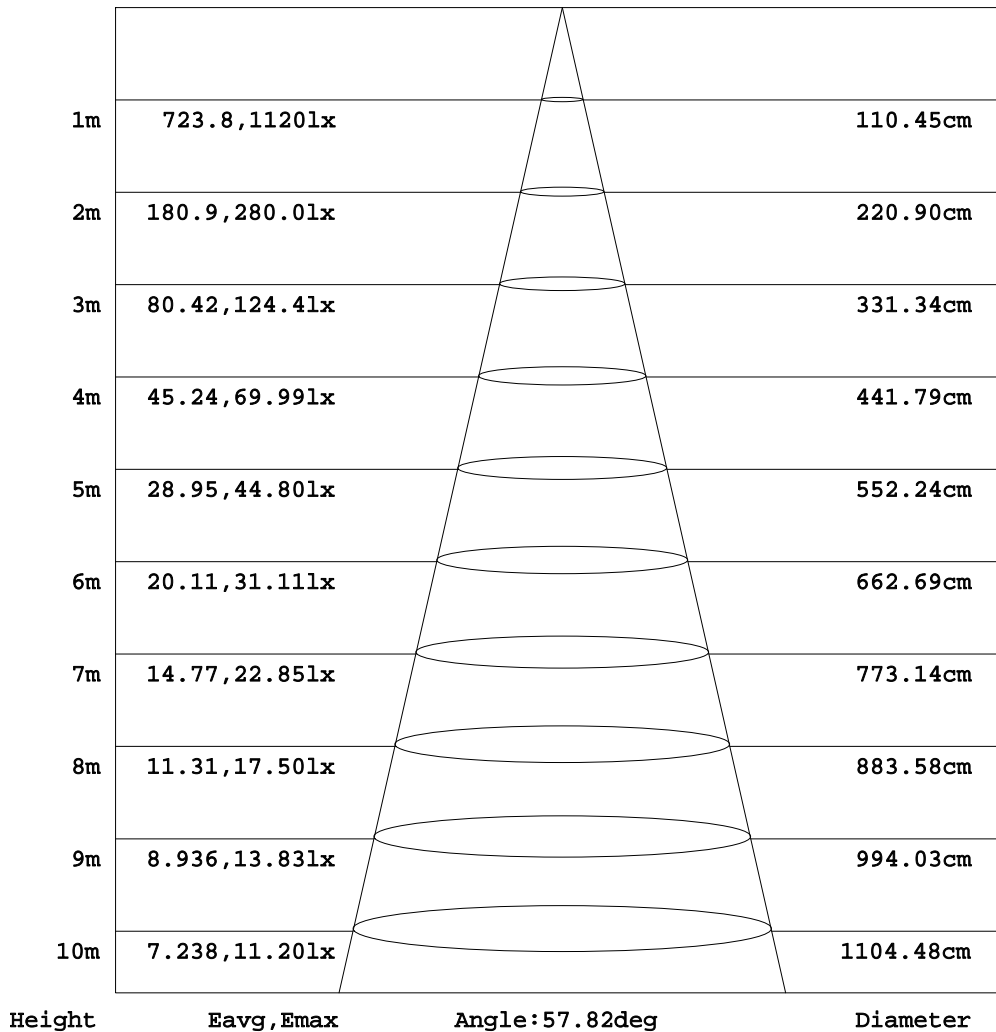
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AAI Figure

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Flux out:698.7 lm



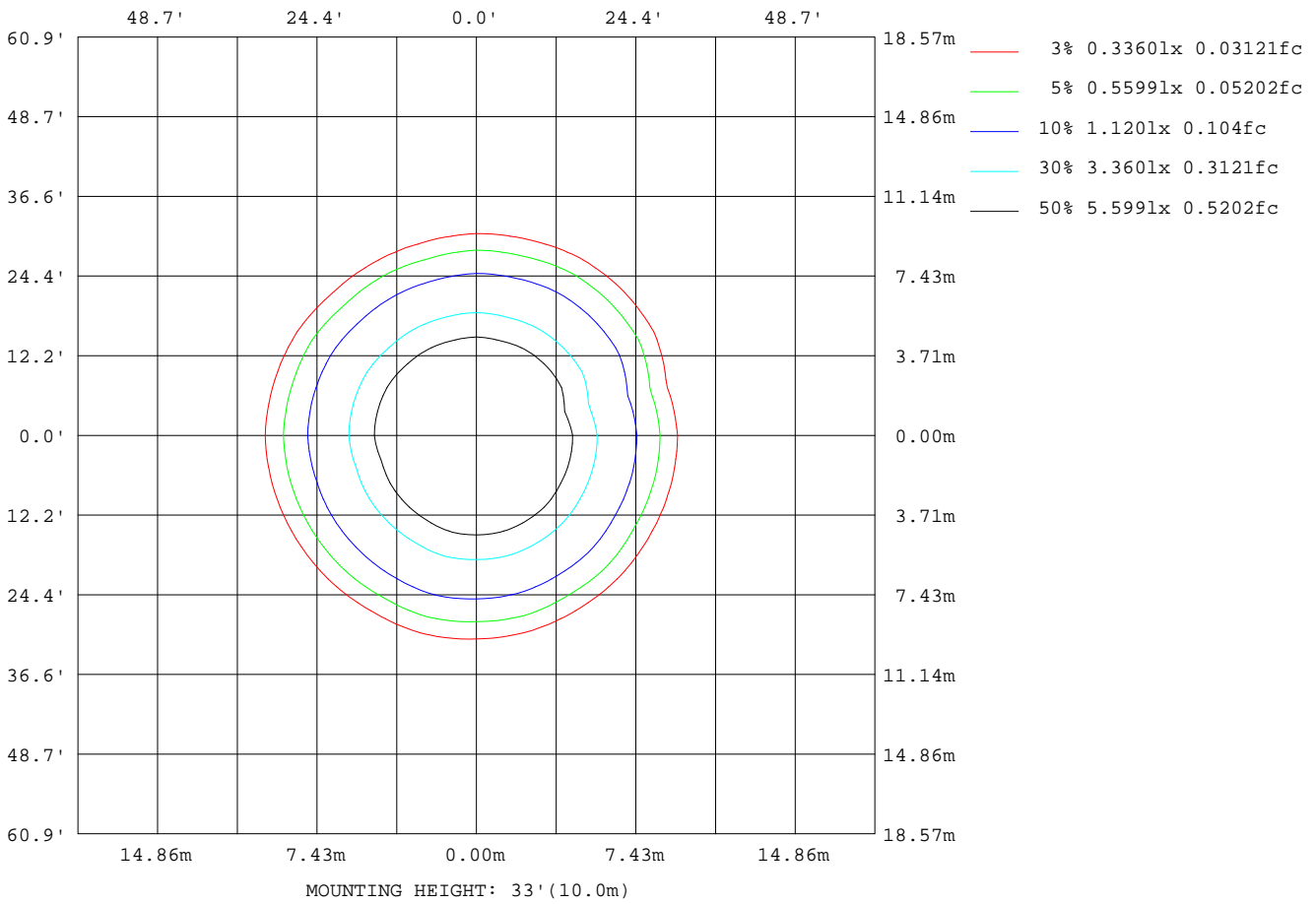
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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ISOLUX DIAGRAM

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LED Avg.L Report

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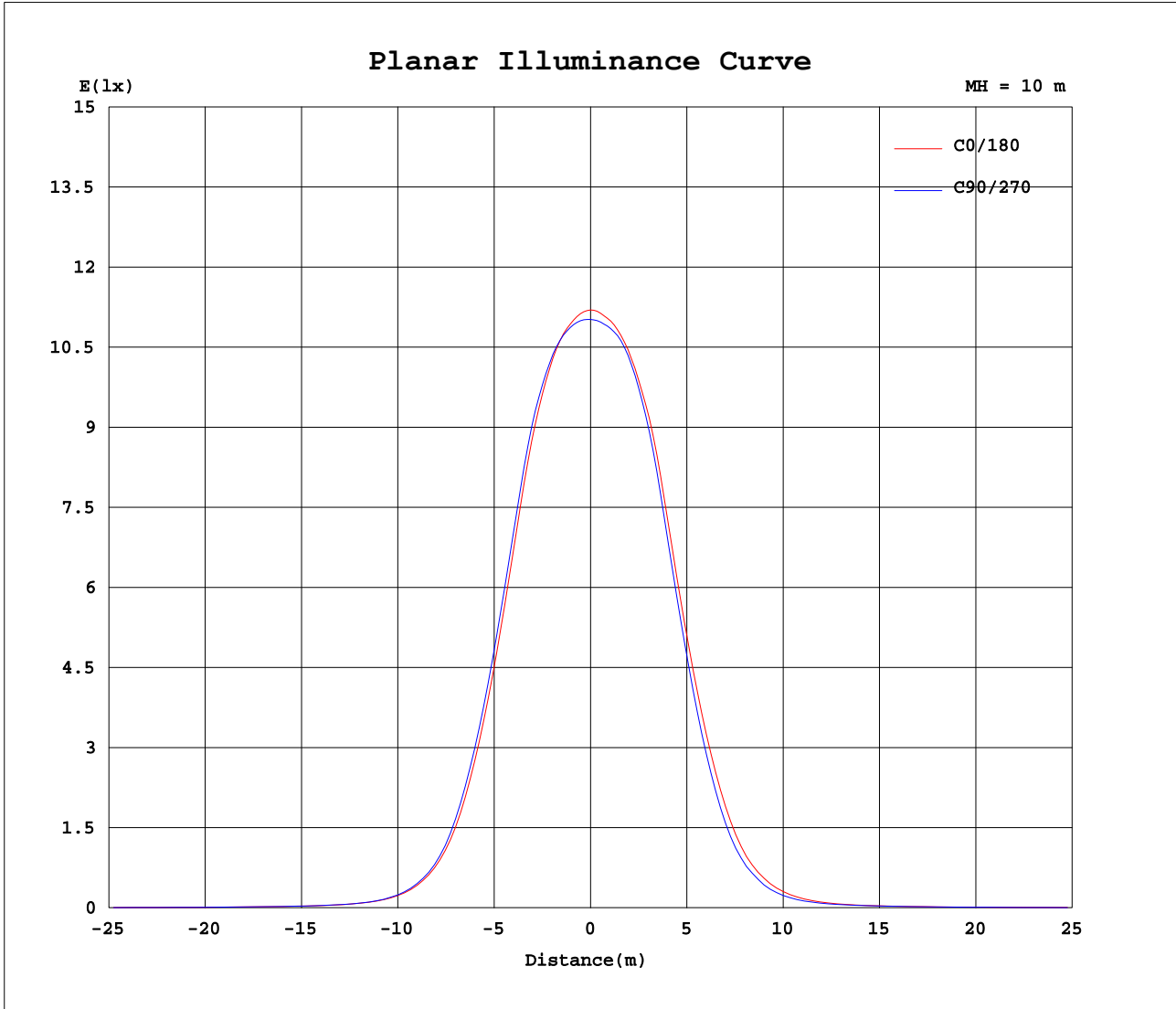
AvgL	cd/m2
L_0~180 (65) av	15084
L_0~180 (75) av	10889
L_0~180 (85) av	3726
L_90~270 (65) av	15030
L_90~270 (75) av	10872
L_90~270 (85) av	3516
L_45 (65) av	15263
L_45 (75) av	11149
L_45 (85) av	3631

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Myles
Test Date:2019-01-07

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: 2019-01-07

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:1017.16x1 lm		
NAME: M3-11W-930-60	TYPE:Downlight	SERIAL No.:
SPEC.:3000K	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	1120	1117	1114	1111	1108	1105	1102	1099	1097	1095	1094	1095	1120	1117	1114	1111	1108	1105	1102
5	1114	1113	1114	1113	1112	1108	1105	1101	1098	1095	1092	1094	1117	1114	1113	1111	1109	1106	1102
10	1097	1099	1102	1108	1108	1106	1100	1096	1089	1084	1081	1078	1109	1107	1108	1106	1106	1102	1099
15	1039	1043	1051	1060	1062	1064	1062	1058	1048	1041	1041	1036	1073	1072	1072	1066	1064	1057	1054
20	906	913	920	939	941	948	944	945	926	922	924	917	975	971	967	948	941	929	933
25	700	703	710	733	737	747	744	748	729	727	733	730	779	774	769	743	734	722	728
30	480	482	487	505	511	522	519	529	511	514	522	523	561	554	548	517	508	496	502
35	276	276	276	290	292	303	303	317	303	306	313	321	346	336	327	300	291	279	289
40	138	137	135	144	141	151	149	157	152	158	163	168	179	171	164	146	143	136	145
45	65.7	64.5	64.2	64.5	65.8	67.8	68.9	73.0	71.7	75.2	78.2	83.0	86.2	81.5	76.3	68.6	64.2	63.4	65.8
50	33.1	33.0	33.0	33.5	33.1	34.0	34.2	35.6	35.3	36.3	37.5	40.7	42.0	40.0	37.4	33.8	32.9	32.4	33.8
55	21.2	21.5	21.7	22.0	21.7	21.8	21.6	21.9	21.9	22.2	22.6	23.8	24.4	23.7	23.0	22.0	22.0	21.7	22.2
60	15.9	15.9	16.2	16.6	16.5	16.4	16.1	16.3	16.4	16.6	16.7	17.3	17.7	17.3	17.3	16.8	16.9	16.6	16.8
65	11.8	11.9	12.2	12.6	12.7	12.6	12.2	12.4	12.4	12.5	12.5	12.9	13.3	13.1	13.1	12.8	12.9	12.6	12.7
70	8.19	8.35	8.55	8.91	9.03	8.98	8.65	8.76	8.64	8.72	8.79	9.13	9.30	9.30	9.34	9.14	9.13	8.92	8.94
75	5.09	5.16	5.37	5.67	5.80	5.72	5.48	5.54	5.37	5.43	5.57	5.91	5.97	5.94	5.97	5.76	5.72	5.55	5.56
80	2.47	2.52	2.62	2.86	2.96	2.95	2.79	2.84	2.68	2.72	2.83	3.16	3.20	3.12	3.11	2.89	2.86	2.69	2.75
85	0.30	0.29	0.39	0.62	0.75	0.76	0.73	0.75	0.62	0.59	0.69	0.99	0.98	0.93	0.84	0.62	0.53	0.42	0.47
90	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.05	0.07	0.06	0.06	0.04	0.03	0.03	0.03	0.03

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:Myles
 Test Date:2019-01-07

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:1017.16x1 lm		
NAME: M3-11W-930-60	TYPE:Downlight	SERIAL No.:
SPEC.:3000K	DIM.: φ50mm*H40mm	
MFR.: NEKO LIGHTING AG		

Table--2

UNIT: cd

C (DEG) γ (DEG)	285	300	315	330	345														
0	1099	1097	1095	1094	1095														
5	1098	1095	1092	1089	1086														
10	1091	1088	1083	1077	1051														
15	1042	1040	1034	1028	982														
20	920	928	920	916	834														
25	719	735	732	725	636														
30	495	510	512	510	428														
35	288	303	306	305	244														
40	144	157	159	157	122														
45	68.9	73.3	74.4	72.9	56.6														
50	34.2	36.7	36.2	35.4	29.4														
55	22.6	23.3	22.8	22.1	19.7														
60	17.1	17.5	16.9	16.4	14.8														
65	12.9	13.2	12.8	12.2	10.9														
70	9.05	9.32	9.09	8.60	7.56														
75	5.65	5.89	5.78	5.42	4.64														
80	2.79	2.99	2.96	2.77	2.15														
85	0.47	0.63	0.65	0.54	0.20														
90	0.03	0.03	0.03	0.03	0.03														

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:Myles
 Test Date:2019-01-07

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: