

T75-11W-930-50



Light Output Ratio:	100.0%	
Luminaire Power:	13.42 W	
SHR Nominal:	0.75	Calculated using the TM5
SHR Maximum:	0.80	fine grid method.

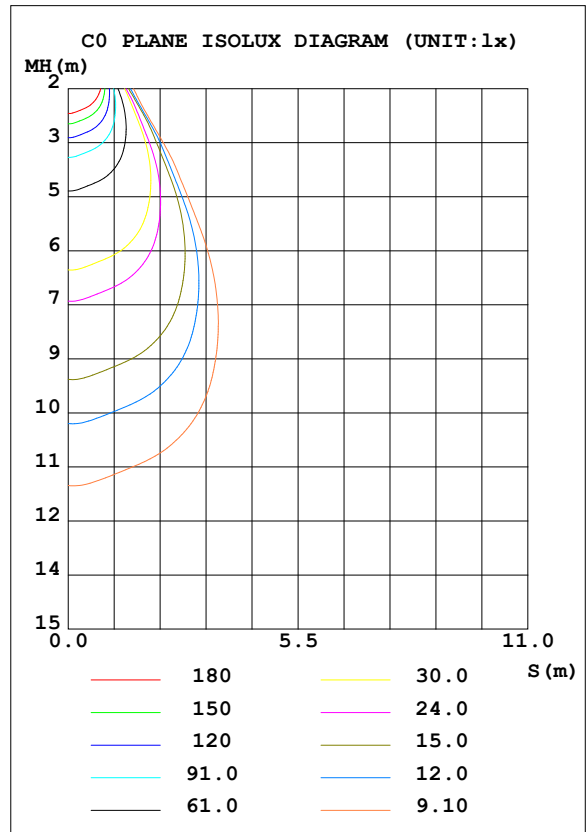
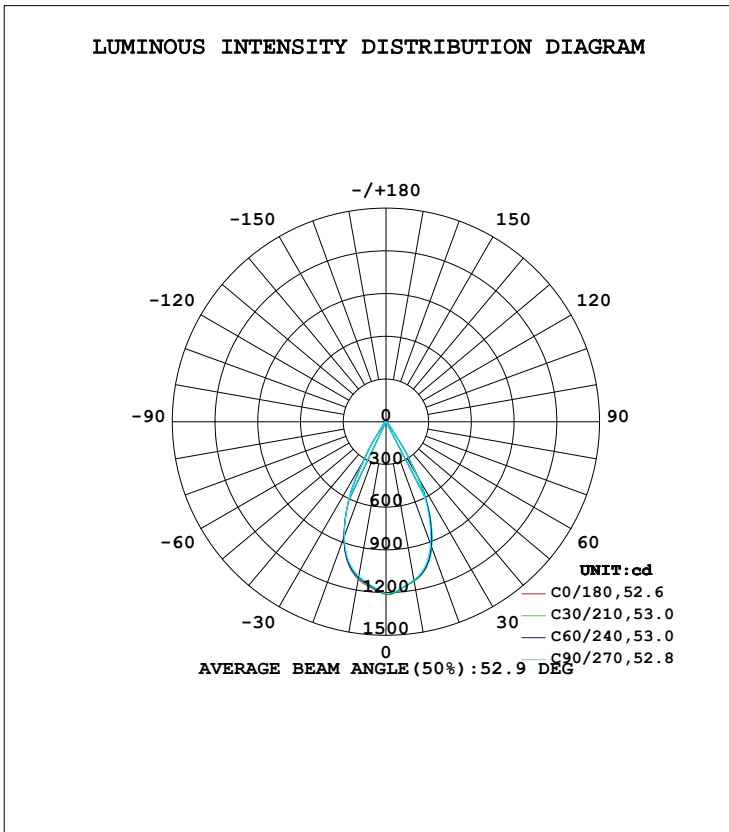
C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: Jason Long
 Test Date: 2019-06-04

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:0.0652A P:13.42W PF:0.8956 Freq:49.90Hz Lamp Flux:851.763x1 lm		
NAME: T75-11W-930-50	TYPE:Downlight	SERIAL No.:
SPEC.:3000K	DIM.: φ85mm*H75mm	
MFR.: NEKO LIGHTING AG		

DATA OF LAMP		PHOTOMETRIC DATA			
MODEL	CITIZEN-3000K	Imax (cd)	1215	S/MH (C0/180)	0.76
NOMINAL POWER (W)	13	LOR (%)	100.0	S/MH (C90/270)	0.76
RATED VOLTAGE (V)	220	TOTAL FLUX (lm)	851.76	η UP, DN (C0-180)	0.0, 52.4
NOMINAL FLUX (lm)	851.763	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 47.6
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	0.75
TEST VOLTAGE (V)	220	η down (%)	100.0	CIBSE SHR MAX	0.80



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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	1137	1136	1129	1125	1123	1112	1099	1095	0- 10	109.9	109.9	12.9,12.9
20	934.8	945.8	911.2	902.8	862.9	856.9	856.7	862.7	10- 20	287.7	397.6	46.7,46.7
30	446.4	471.4	437.3	410.8	314.2	302.8	327.3	347.5	20- 30	298.6	696.1	81.7,81.7
40	54.85	55.74	44.31	50.04	39.84	39.02	40.83	42.49	30- 40	94.58	790.7	92.8,92.8
50	22.60	21.95	21.14	21.44	22.09	22.14	21.85	21.68	40- 50	21.89	812.6	95.4,95.4
60	17.89	16.92	15.72	16.18	17.06	16.69	16.15	16.44	50- 60	17.38	830.0	97.4,97.4
70	11.90	10.37	9.063	9.711	10.91	10.01	9.341	10.04	60- 70	13.25	843.2	99,99
80	5.573	3.792	2.657	3.213	4.578	3.185	2.632	3.630	70- 80	7.212	850.4	99.8,99.8
90	0.4854	0.1880	0.5860	0.1421	0.0525	0.0503	0.0525	0.0722	80- 90	1.333	851.8	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): 803.1 lm

%lum = 94.3%

%lamp = 94.3%

Conical surface Flux(120deg): 829.96 lm

%lum = 97.4%

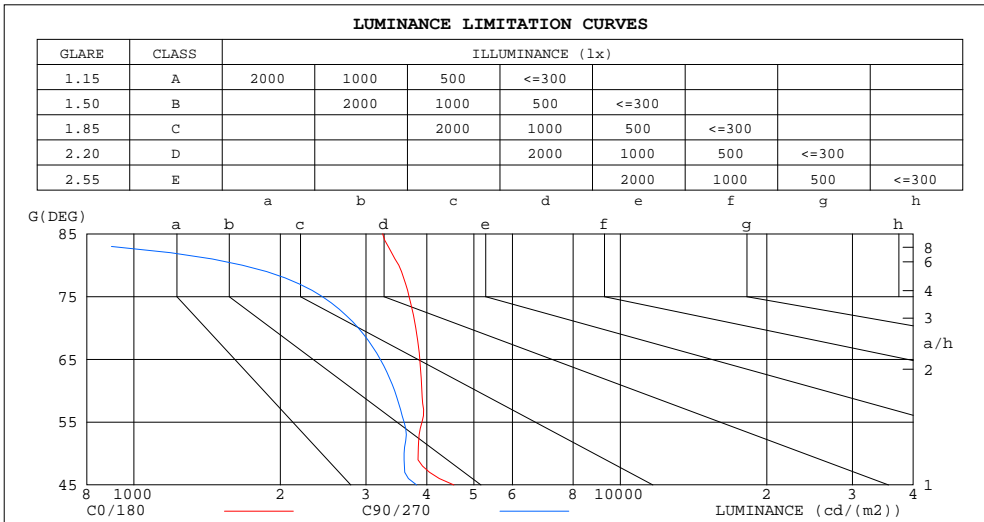
%lamp = 97.4%

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Remarks:

LUMINANCE LIMITATION CURVES

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LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	3247	339
80	3505	1671
75	3679	2439
70	3799	2894
65	3871	3210
60	3908	3435
55	3912	3593
50	3840	3593
45	4548	3812

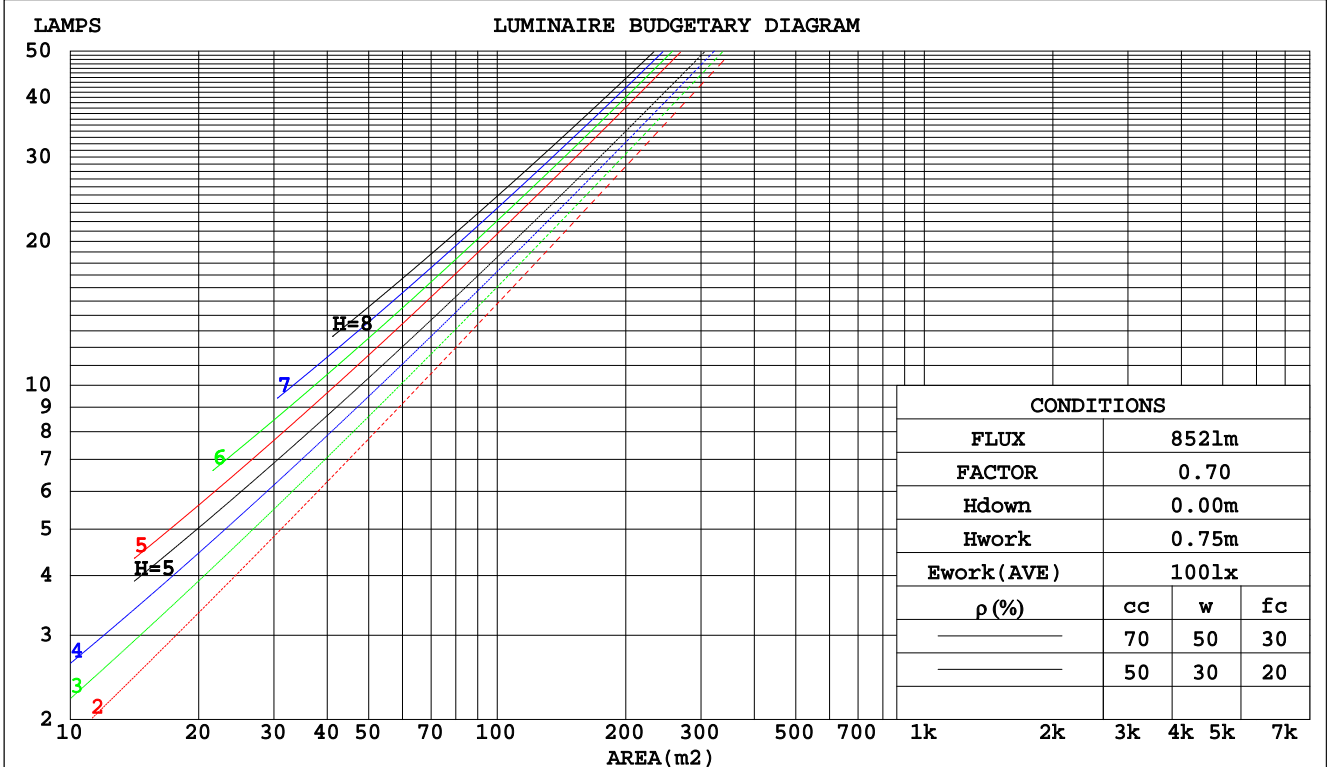
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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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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	1.11	1.08	1.06	1.09	1.06	1.04	1.05	1.03	1.01	1.01	.99	.98	.97	.96	.95	.94
2.0	1.03	.99	.96	1.02	.98	.95	.98	.95	.93	.95	.93	.91	.93	.91	.89	.87
3.0	.97	.92	.88	.95	.91	.87	.93	.89	.86	.90	.87	.85	.88	.86	.83	.82
4.0	.91	.86	.82	.90	.85	.81	.88	.84	.80	.86	.82	.79	.84	.81	.78	.77
5.0	.86	.80	.76	.85	.80	.76	.83	.79	.75	.81	.77	.74	.80	.76	.74	.72
6.0	.81	.75	.71	.80	.75	.71	.79	.74	.71	.77	.73	.70	.76	.72	.70	.68
7.0	.77	.71	.67	.76	.71	.67	.75	.70	.67	.74	.69	.66	.73	.69	.66	.65
8.0	.73	.67	.63	.72	.67	.63	.71	.66	.63	.70	.66	.63	.69	.65	.62	.61
9.0	.69	.64	.60	.69	.63	.60	.68	.63	.60	.67	.63	.59	.66	.62	.59	.58
10.0	.66	.61	.57	.66	.60	.57	.65	.60	.57	.64	.60	.56	.63	.59	.56	.55



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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	.177	.101	.032	.170	.097	.031	.158	.091	.029	.146	.084	.027	.136	.079	.025	
2.0	.168	.092	.028	.162	.089	.027	.151	.084	.026	.142	.079	.025	.133	.075	.024	
3.0	.158	.084	.025	.153	.082	.025	.144	.078	.024	.136	.075	.023	.128	.071	.022	
4.0	.149	.078	.023	.145	.076	.022	.138	.073	.022	.130	.070	.021	.124	.067	.020	
5.0	.142	.072	.021	.138	.071	.021	.131	.068	.020	.125	.066	.020	.119	.064	.019	
6.0	.135	.067	.019	.131	.066	.019	.126	.064	.019	.120	.062	.018	.115	.060	.018	
7.0	.128	.063	.018	.125	.062	.018	.120	.061	.018	.115	.059	.017	.111	.058	.017	
8.0	.122	.060	.017	.120	.059	.017	.115	.058	.016	.111	.056	.016	.107	.055	.016	
9.0	.117	.057	.016	.115	.056	.016	.111	.055	.016	.107	.054	.015	.103	.052	.015	
10.0	.112	.054	.015	.110	.053	.015	.107	.052	.015	.103	.051	.015	.100	.050	.014	

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	.171	.157	.145	.146	.135	.125	.100	.093	.086	.058	.054	.050	.018	.017	.016	
2.0	.156	.133	.113	.133	.114	.098	.091	.079	.068	.053	.046	.040	.017	.015	.013	
3.0	.143	.114	.090	.123	.098	.078	.084	.068	.055	.049	.040	.032	.016	.013	.011	
4.0	.132	.099	.073	.114	.085	.064	.078	.059	.045	.045	.035	.026	.015	.011	.009	
5.0	.123	.087	.060	.106	.075	.053	.073	.053	.037	.042	.031	.022	.014	.010	.007	
6.0	.115	.078	.051	.099	.067	.044	.068	.047	.031	.040	.028	.019	.013	.009	.006	
7.0	.109	.070	.043	.094	.061	.037	.065	.043	.026	.038	.025	.016	.012	.008	.005	
8.0	.103	.064	.037	.089	.055	.032	.061	.039	.023	.036	.023	.014	.012	.007	.004	
9.0	.098	.058	.032	.084	.051	.028	.058	.036	.020	.034	.021	.012	.011	.007	.004	
10.0	.093	.054	.028	.080	.047	.024	.056	.033	.017	.032	.019	.010	.011	.006	.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:0.0652A P:13.42W PF:0.8956 Freq:49.90Hz Lamp Flux:851.763x1 lm		
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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	14.8	15.7	15.0	15.9	16.0	14.5	15.4	14.7	15.5	15.7
3H	15.5	16.3	15.7	16.5	16.7	14.9	15.7	15.2	15.9	16.1
4H	15.8	16.6	16.1	16.8	17.0	15.1	15.9	15.4	16.1	16.3
6H	16.1	16.8	16.4	17.1	17.3	15.2	15.9	15.5	16.2	16.4
8H	16.2	16.9	16.5	17.2	17.4	15.2	15.9	15.5	16.1	16.4
12H	16.3	17.0	16.6	17.2	17.5	15.1	15.8	15.4	16.1	16.3
4H 2H	14.9	15.7	15.2	15.9	16.1	14.6	15.4	14.9	15.6	15.8
3H	15.7	16.4	16.1	16.7	17.0	15.2	15.9	15.5	16.2	16.5
4H	16.2	16.8	16.6	17.1	17.5	15.5	16.1	15.8	16.4	16.7
6H	16.6	17.2	17.0	17.5	17.9	15.6	16.2	16.0	16.5	16.9
8H	16.8	17.3	17.2	17.7	18.0	15.6	16.1	16.0	16.5	16.9
12H	16.9	17.4	17.3	17.8	18.1	15.6	16.1	16.0	16.4	16.8
8H 4H	16.3	16.8	16.7	17.2	17.5	15.6	16.1	16.0	16.5	16.8
6H	16.8	17.2	17.2	17.6	18.0	15.8	16.2	16.2	16.6	17.0
8H	17.0	17.4	17.5	17.8	18.2	15.8	16.2	16.3	16.6	17.1
12H	17.2	17.5	17.6	17.9	18.4	15.8	16.1	16.3	16.5	17.0
12H 4H	16.3	16.7	16.7	17.1	17.5	15.6	16.1	16.0	16.4	16.8
6H	16.8	17.2	17.2	17.6	18.0	15.8	16.2	16.3	16.6	17.1
8H	17.0	17.3	17.5	17.8	18.2	15.8	16.2	16.3	16.6	17.1
Variations with the observer position at spacings:										
S = 1.0H	+ 0.6 / - 0.6					+ 0.8 / - 0.7				
1.5H	+ 1.3 / - 0.5					+ 1.7 / - 0.6				
2.0H	+ 0.2 / - 0.2					+ 0.2 / - 0.3				

CIE Pub.117, 851.8 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -0.6)

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UTILIZATION FACTORS TABLE

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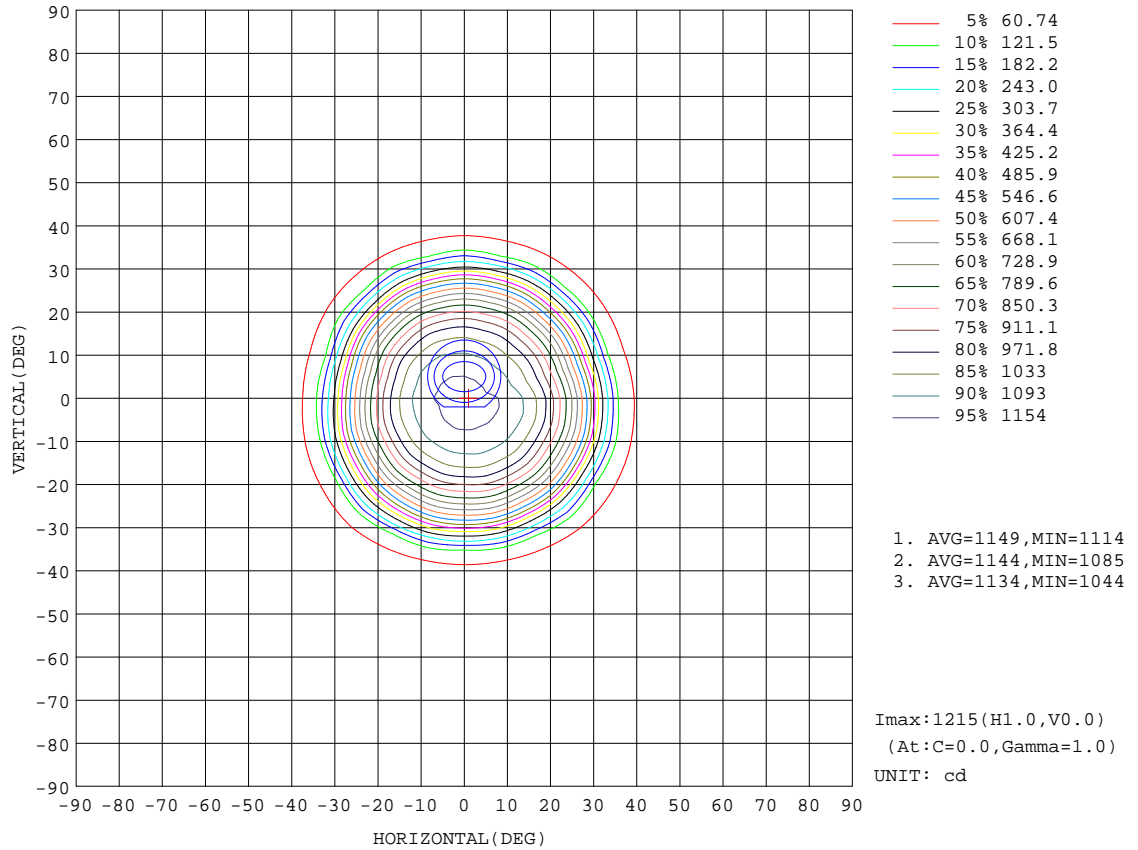
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	87	81	77	87	81	77	86	80	77	73
0.80	94	89	85	94	88	85	93	88	84	81
1.00	99	93	89	98	93	89	96	92	89	85
1.25	103	97	94	102	97	93	100	96	93	88
1.50	105	101	97	104	100	97	102	98	96	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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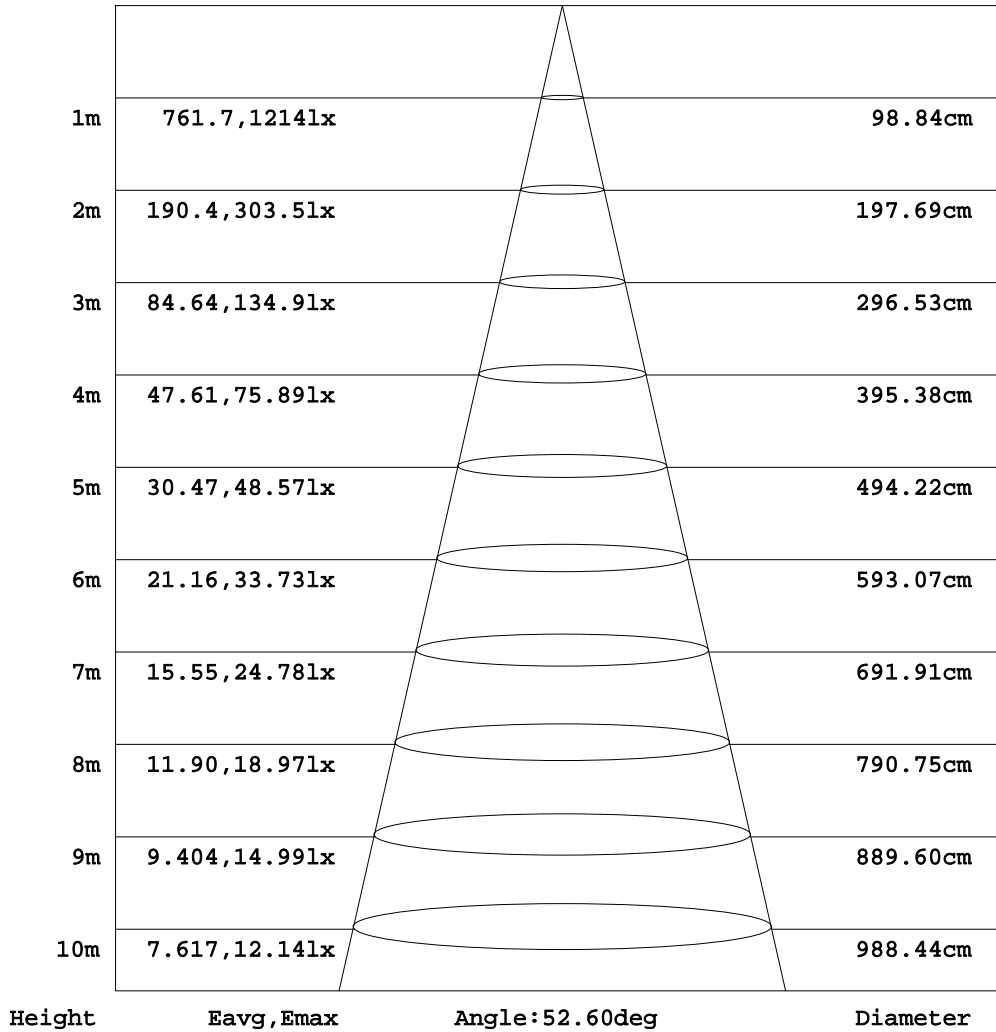
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AAI Figure

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Flux out:621.3 lm



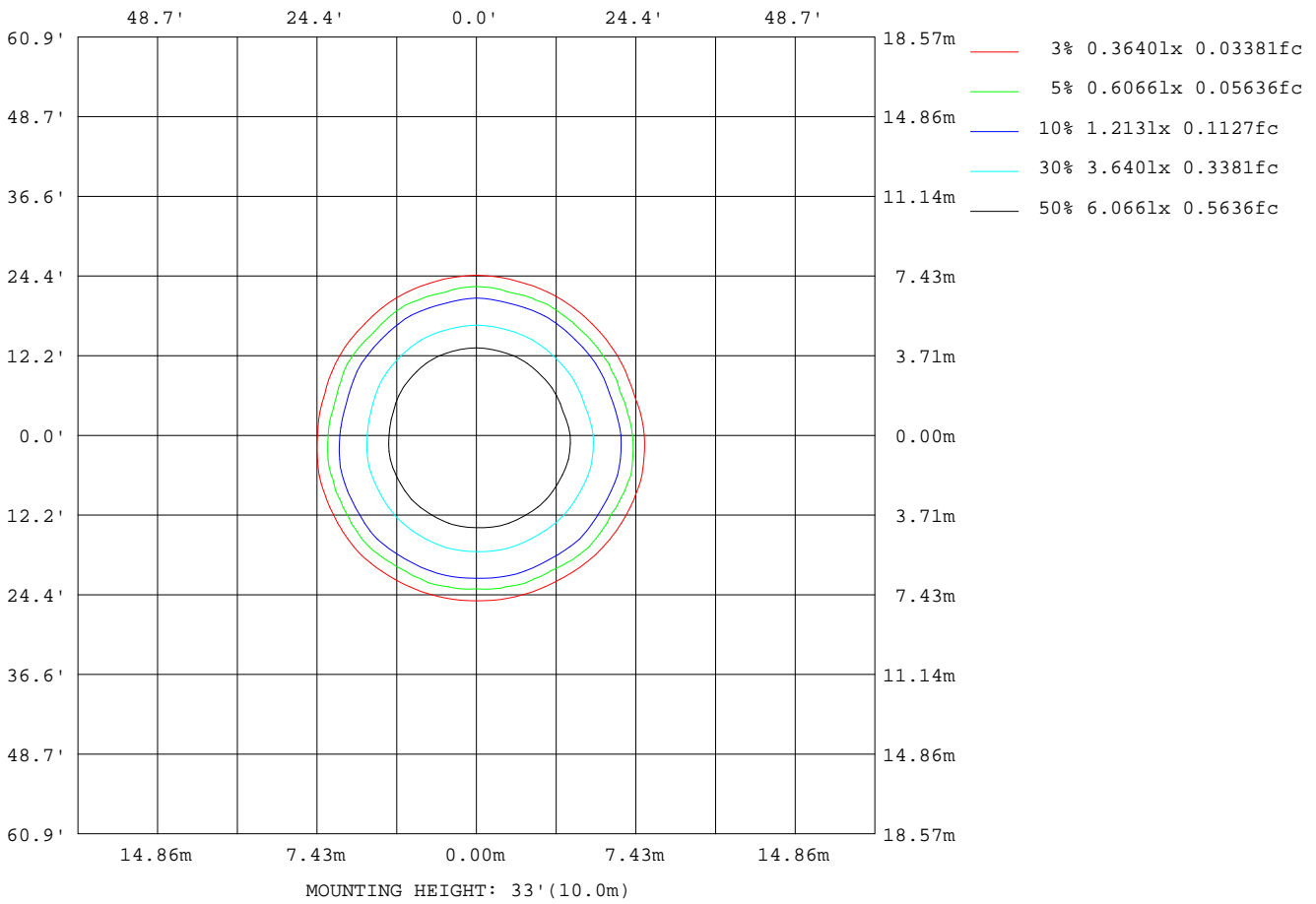
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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ISOLUX DIAGRAM

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LED Avg.L Report

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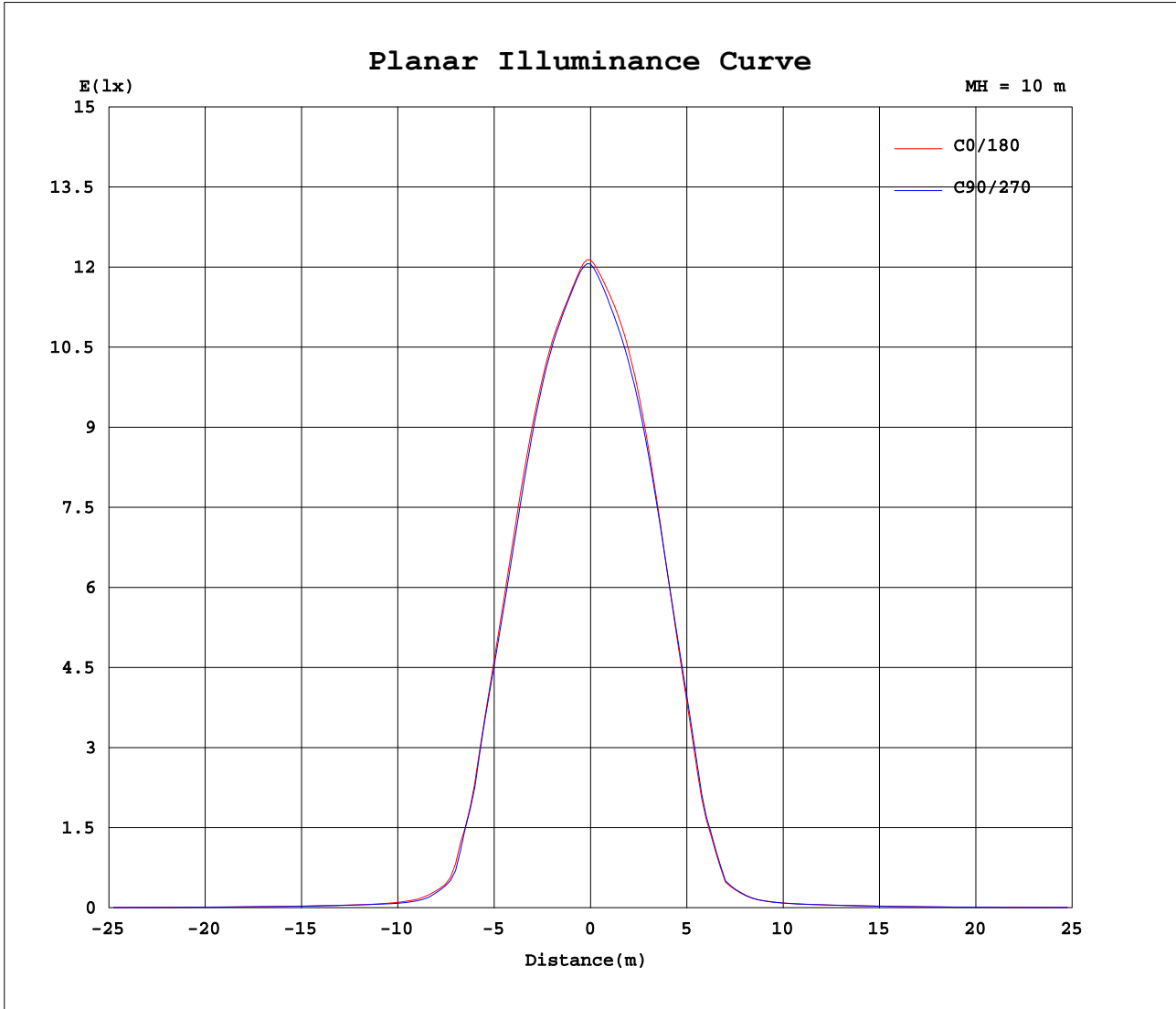
AvgL	cd/m2
L_0~180 (65) av	3752
L_0~180 (75) av	3468
L_0~180 (85) av	2699
L_90~270 (65) av	3259
L_90~270 (75) av	2471
L_90~270 (85) av	242
L_45 (65) av	3452
L_45 (75) av	2832
L_45 (85) av	530

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason Long
Test Date:2019-06-04

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: Jason Long
 Test Date: 2019-06-04

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:0.0652A P:13.42W PF:0.8956 Freq:49.90Hz Lamp Flux:851.763x1 lm		
NAME: T75-11W-930-50	TYPE:Downlight	SERIAL No.:
SPEC.:3000K	DIM.: φ85mm*H75mm	
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	1213	1210	1211	1209	1208	1206	1206	1204	1203	1202	1201	1200	1213	1210	1211	1209	1208	1206	1206
5	1180	1184	1181	1181	1178	1178	1176	1177	1172	1171	1165	1163	1171	1166	1165	1162	1161	1156	1155
10	1137	1141	1137	1136	1131	1131	1129	1128	1125	1125	1121	1119	1123	1116	1117	1112	1110	1102	1099
15	1068	1078	1073	1073	1067	1064	1054	1053	1047	1048	1040	1038	1031	1019	1026	1021	1022	1014	1012
20	935	949	942	946	932	927	911	911	901	903	888	884	863	845	860	857	865	856	857
25	726	744	736	740	723	723	707	707	693	689	665	658	622	606	626	626	637	628	634
30	446	477	464	471	447	446	437	436	418	411	378	364	314	290	305	303	322	318	327
35	150	186	158	183	140	153	127	148	125	149	111	104	87.7	83.8	85.6	85.2	89.8	89.0	92.4
40	54.8	59.0	57.6	55.7	48.6	45.3	44.3	44.1	45.4	50.0	46.0	44.4	39.8	37.9	39.4	39.0	40.1	38.9	40.8
45	29.4	30.4	29.2	28.7	26.3	25.3	24.7	24.7	25.1	26.8	26.6	26.6	26.0	25.6	26.1	25.9	25.8	25.0	25.2
50	22.6	22.6	22.2	22.0	21.5	21.2	21.1	21.1	21.1	21.4	21.5	21.9	22.1	22.0	22.2	22.1	22.1	21.9	21.9
55	20.5	20.5	20.0	19.8	19.4	19.2	18.9	18.9	18.9	19.2	19.4	19.8	20.0	19.9	20.0	19.8	19.7	19.3	19.3
60	17.9	17.9	17.3	16.9	16.3	16.0	15.7	15.8	15.8	16.2	16.4	16.8	17.1	16.9	16.9	16.7	16.5	16.2	16.2
65	15.0	14.8	14.2	13.7	13.1	12.7	12.4	12.5	12.6	13.0	13.3	13.8	14.1	13.8	13.8	13.4	13.2	12.8	12.8
70	11.9	11.6	10.9	10.4	9.69	9.36	9.06	9.14	9.27	9.71	10.1	10.6	10.9	10.6	10.4	10.0	9.70	9.37	9.34
75	8.72	8.40	7.61	7.03	6.36	6.03	5.78	5.84	5.99	6.42	6.83	7.45	7.72	7.41	7.09	6.59	6.25	5.93	5.93
80	5.57	5.22	4.39	3.79	3.19	2.91	2.66	2.72	2.82	3.21	3.64	4.33	4.58	4.23	3.74	3.18	2.83	2.60	2.63
85	2.59	2.20	1.35	0.80	0.45	0.32	0.27	0.23	0.20	0.27	0.59	0.63	1.72	0.53	0.46	0.13	0.11	0.14	0.12
90	0.49	0.15	0.26	0.19	0.49	0.59	0.59	0.54	0.48	0.14	0.07	0.07	0.05	0.07	0.05	0.05	0.05	0.05	0.05

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
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 Operators:Jason Long
 Test Date:2019-06-04

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:0.0652A P:13.42W PF:0.8956 Freq:49.90Hz Lamp Flux:851.763x1 lm		
NAME: T75-11W-930-50	TYPE:Downlight	SERIAL No.:
SPEC.:3000K	DIM.: φ85mm*H75mm	
MFR.: NEKO LIGHTING AG		

Table--2

UNIT: cd

C (DEG) \ γ (DEG)	285	300	315	330	345															
0	1204	1203	1202	1201	1200															
5	1151	1152	1150	1154	1156															
10	1095	1095	1095	1103	1109															
15	1005	1010	1011	1023	1031															
20	850	863	863	879	886															
25	630	643	642	663	669															
30	322	339	347	366	371															
35	89.8	93.5	95.4	103	107															
40	38.4	41.2	42.5	45.3	46.4															
45	25.0	25.5	25.8	26.6	26.9															
50	21.6	21.7	21.7	21.8	21.8															
55	19.2	19.4	19.5	19.8	19.9															
60	16.1	16.3	16.4	16.8	17.0															
65	12.7	13.1	13.3	13.8	14.1															
70	9.37	9.71	10.0	10.6	11.0															
75	6.02	6.39	6.80	7.38	7.87															
80	2.77	3.17	3.63	4.27	4.81															
85	0.14	0.20	0.49	1.20	1.89															
90	0.06	0.06	0.07	0.07	0.08															

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:Jason Long
 Test Date:2019-06-04

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: