

T75-11W-940-50



Light Output Ratio:	100.0%	
Luminaire Power:	10.86 W	
SHR Nominal:	0.75	Calculated using the TM5
SHR Maximum:	0.80	fine grid method.

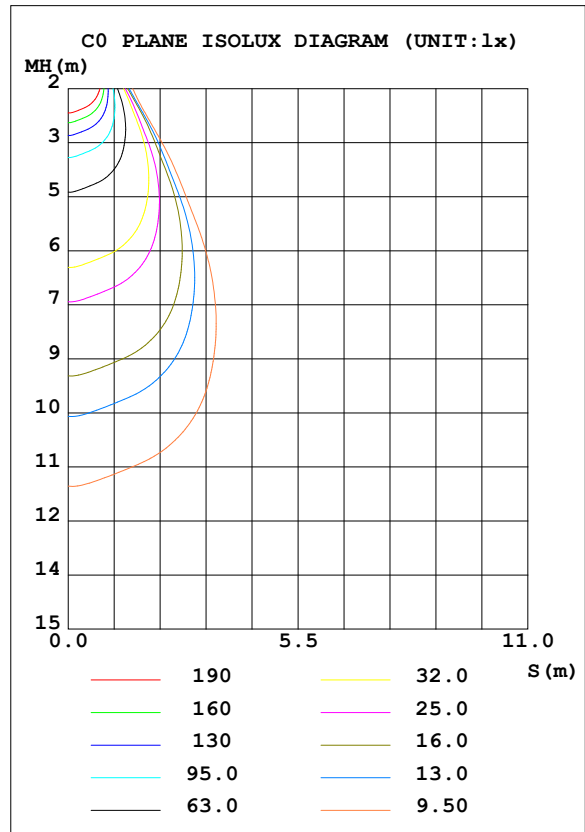
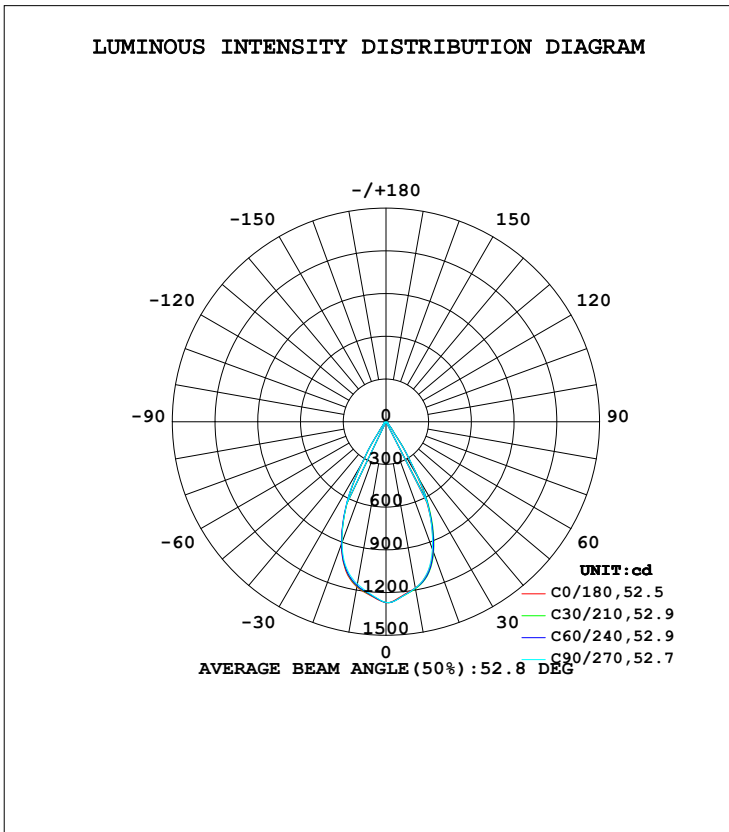
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Jason Long
Test Date: 2019-06-04

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:31.03V I:0.3500A P:10.86W PF:1.000 Freq:0Hz Lamp Flux:893.389x1 lm		
NAME: T75-11W-940-50	TYPE:Downlight	SERIAL No.:
SPEC.:4000K	DIM.: φ85mm*H75mm	
MFR.: NEKO LIGHTING AG		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 82.26 lm/W			
MODEL	CITIZEN-4000K	I _{max} (cd)	1271	S/MH (C0/180)	0.76
NOMINAL POWER (W)	11.0	LOR (%)	100.0	S/MH (C90/270)	0.77
RATED VOLTAGE (V)	36	TOTAL FLUX (lm)	893.39	η UP, DN (C0-180)	0.0, 51.9
NOMINAL FLUX (lm)	893.389	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 48.1
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	0.75
TEST VOLTAGE (V)	31.72	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	1185	1190	1186	1185	1178	1170	1158	1156	0- 10	115.5	115.5	12.9,12.9
20	960.8	980.3	952.9	948.3	916.9	910.0	905.6	911.5	10- 20	302.4	417.9	46.8,46.8
30	435.4	471.2	449.1	426.7	348.3	332.4	350.2	368.0	20- 30	313.1	731.1	81.8,81.8
40	53.29	55.18	45.86	52.06	43.84	42.35	43.64	45.08	30- 40	98.37	829.4	92.8,92.8
50	23.32	22.89	22.20	22.57	23.07	23.19	22.91	22.82	40- 50	22.85	852.3	95.4,95.4
60	18.37	17.60	16.51	17.03	17.90	17.56	16.97	17.32	50- 60	18.21	870.5	97.4,97.4
70	12.13	10.76	9.525	10.23	11.55	10.59	9.848	10.60	60- 70	13.90	884.4	99,99
80	5.620	3.904	2.819	3.370	4.943	3.436	2.815	3.858	70- 80	7.581	892.0	99.8,99.8
90	0.3673	0.1662	0.5663	0.1443	0.0525	0.0503	0.0547	0.0743	80- 90	1.400	893.4	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): 842.36 lm

%lum = 94.3%
%lamp = 94.3%

Conical surface Flux(120deg): 870.51 lm

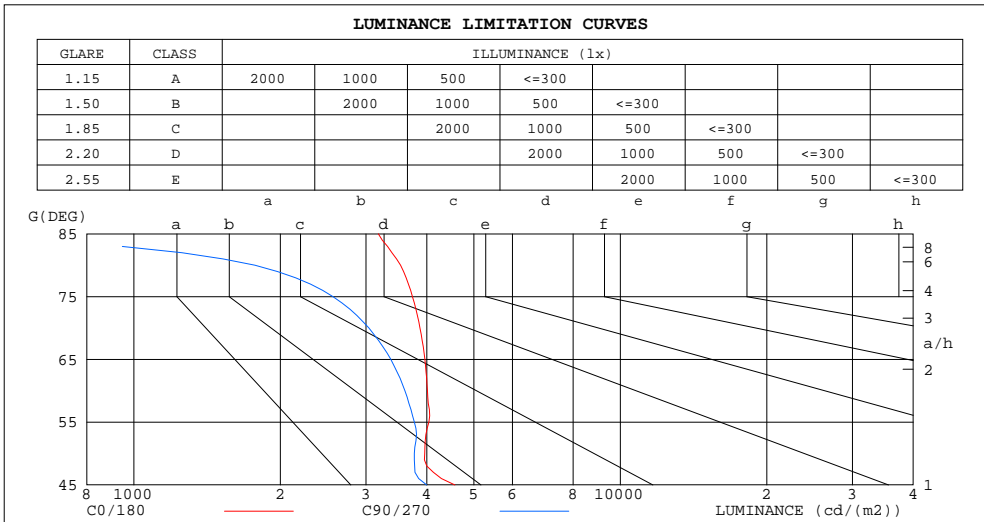
%lum = 97.4%
%lamp = 97.4%

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Humidity:56%
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Remarks:

LUMINANCE LIMITATION CURVES

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LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	3181	317
80	3534	1773
75	3737	2566
70	3874	3041
65	3965	3373
60	4013	3606
55	4040	3772
50	3962	3772
45	4570	3997

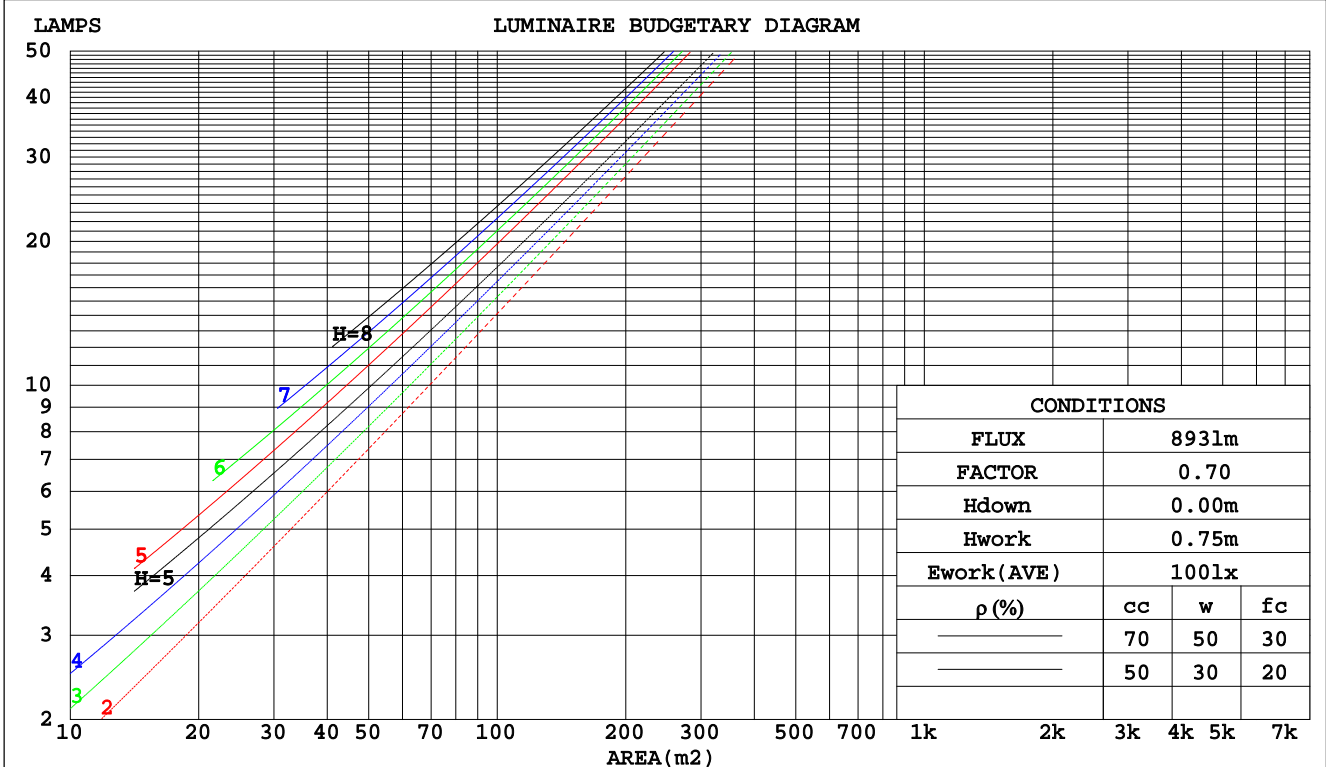
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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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pcc	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	.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	.78	.74	.80	.77	.74	.72
6.0	.81	.75	.71	.80	.75	.71	.79	.74	.71	.77	.73	.70	.76	.73	.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	.64	.60	.68	.63	.60	.67	.63	.59	.66	.62	.59	.58
10.0	.66	.61	.57	.66	.60	.57	.65	.60	.57	.64	.60	.57	.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	.090	.029	.146	.084	.027	.135	.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	.134	.067	.019	.131	.066	.019	.125	.064	.019	.120	.062	.018	.115	.060	.018	
7.0	.128	.063	.018	.125	.062	.018	.120	.061	.017	.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	.113	.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
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 Humidity:56%
 Test Distance:5.850m [K=1.0000]
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:31.03V I:0.3500A P:10.86W PF:1.000 Freq:0Hz Lamp Flux:893.389x1 lm		
NAME: T75-11W-940-50	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	14.5	15.4	14.7	15.5	15.7	14.3	15.2	14.5	15.4	15.6
3H	15.2	16.0	15.4	16.2	16.4	14.8	15.6	15.1	15.8	16.0
4H	15.5	16.3	15.8	16.5	16.7	15.0	15.8	15.3	16.0	16.2
6H	15.8	16.6	16.1	16.8	17.0	15.1	15.8	15.4	16.1	16.3
8H	15.9	16.6	16.2	16.9	17.2	15.1	15.8	15.4	16.0	16.3
12H	16.0	16.7	16.3	16.9	17.2	15.0	15.7	15.3	16.0	16.2
4H 2H	14.6	15.4	14.9	15.6	15.8	14.5	15.3	14.7	15.5	15.7
3H	15.5	16.2	15.8	16.4	16.7	15.1	15.8	15.4	16.1	16.4
4H	16.0	16.6	16.3	16.9	17.2	15.4	16.0	15.8	16.3	16.6
6H	16.4	17.0	16.8	17.3	17.6	15.6	16.1	15.9	16.4	16.8
8H	16.6	17.1	16.9	17.4	17.8	15.6	16.1	15.9	16.4	16.8
12H	16.7	17.1	17.1	17.5	17.9	15.5	16.0	15.9	16.4	16.7
8H 4H	16.1	16.6	16.4	16.9	17.3	15.5	16.0	15.9	16.4	16.8
6H	16.6	17.0	17.0	17.4	17.8	15.7	16.2	16.2	16.6	17.0
8H	16.8	17.2	17.2	17.6	18.0	15.8	16.1	16.2	16.5	17.0
12H	16.9	17.3	17.4	17.7	18.2	15.7	16.0	16.2	16.5	16.9
12H 4H	16.0	16.5	16.4	16.9	17.3	15.5	16.0	15.9	16.3	16.7
6H	16.6	16.9	17.0	17.3	17.8	15.7	16.1	16.2	16.5	17.0
8H	16.8	17.1	17.2	17.5	18.0	15.8	16.1	16.2	16.5	17.0
Variations with the observer position at spacings:										
S = 1.0H	+ 0.5 / - 0.5					+ 0.8 / - 0.7				
1.5H	+ 1.2 / - 0.5					+ 1.7 / - 0.6				
2.0H	+ 0.2 / - 0.2					+ 0.2 / - 0.3				

CIE Pub.117, 893.4 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -0.4)

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UTILIZATION FACTORS TABLE

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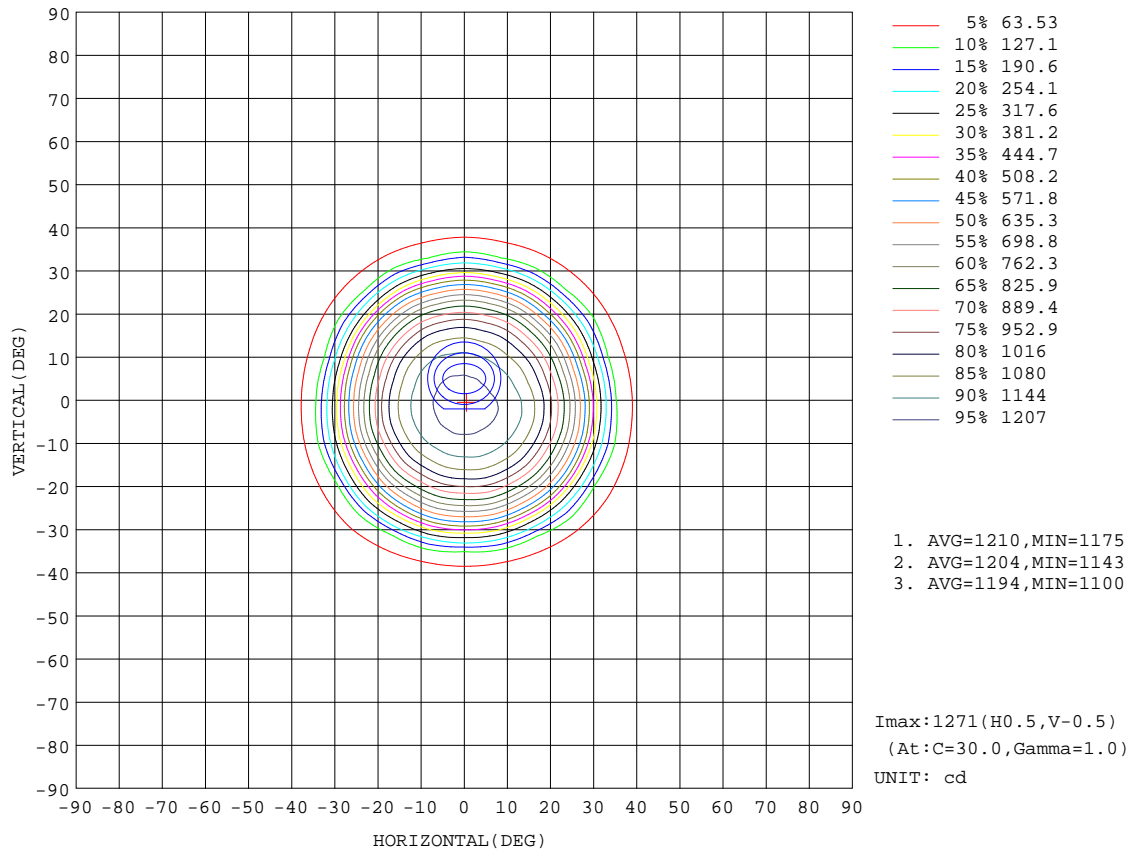
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	87	81	77	87	81	77	86	80	77	73
0.80	94	89	85	94	88	85	93	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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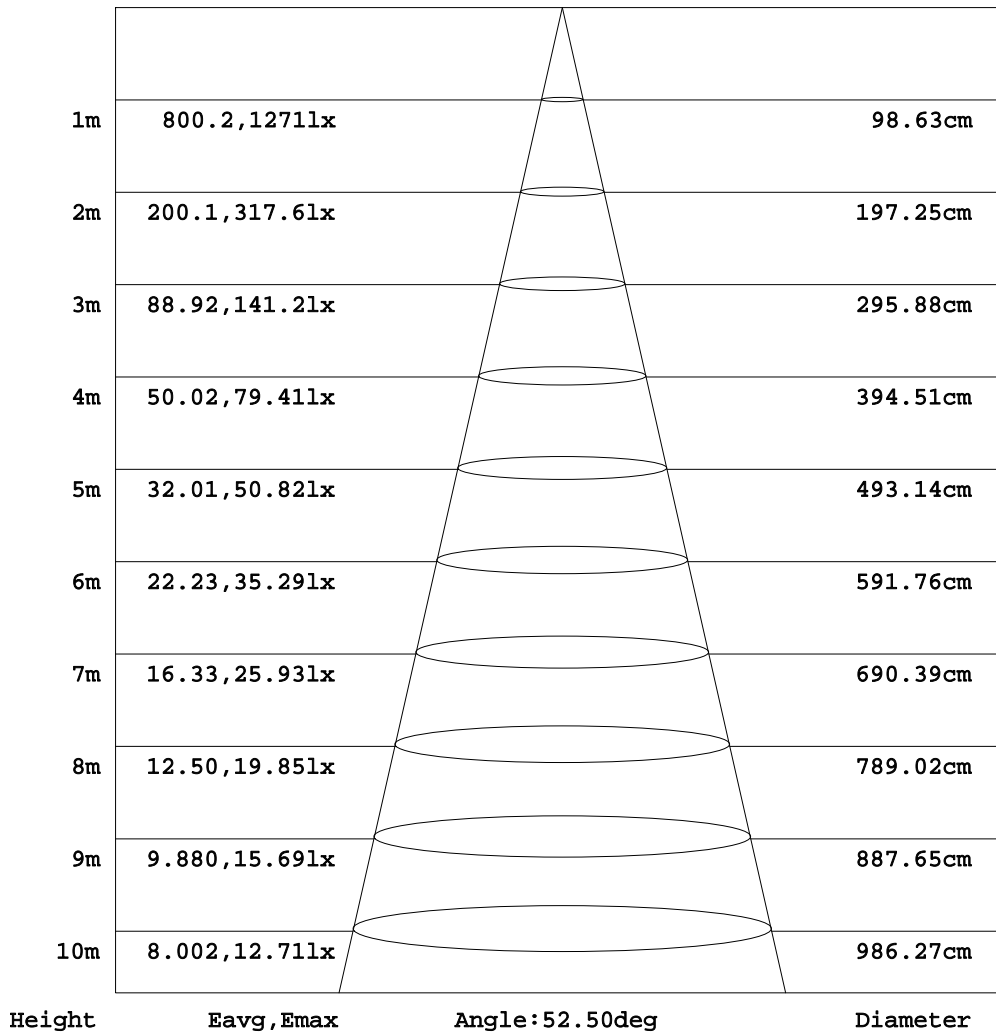
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AAI Figure

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Flux out:652.7 lm



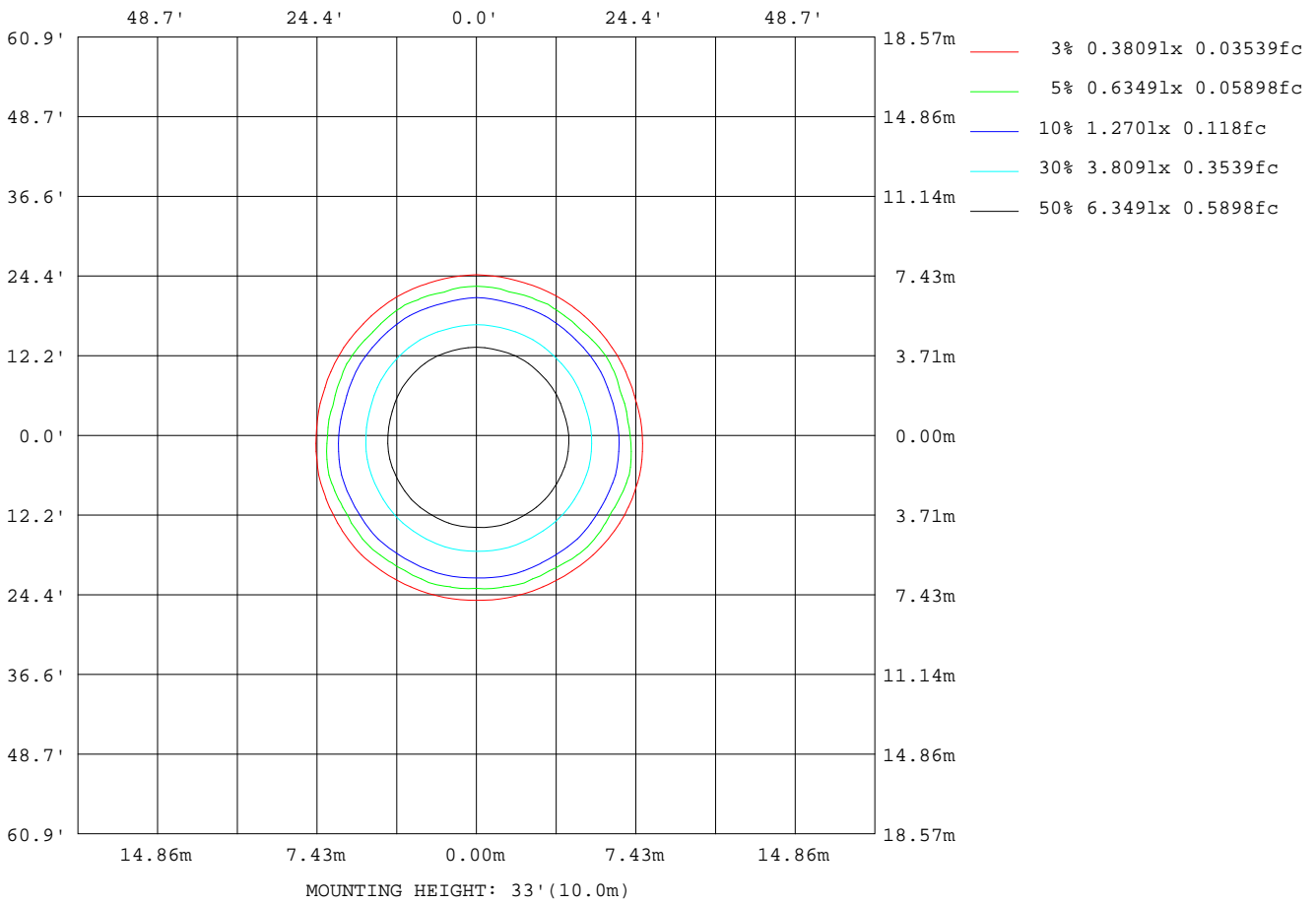
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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ISOLUX DIAGRAM

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LED Avg.L Report

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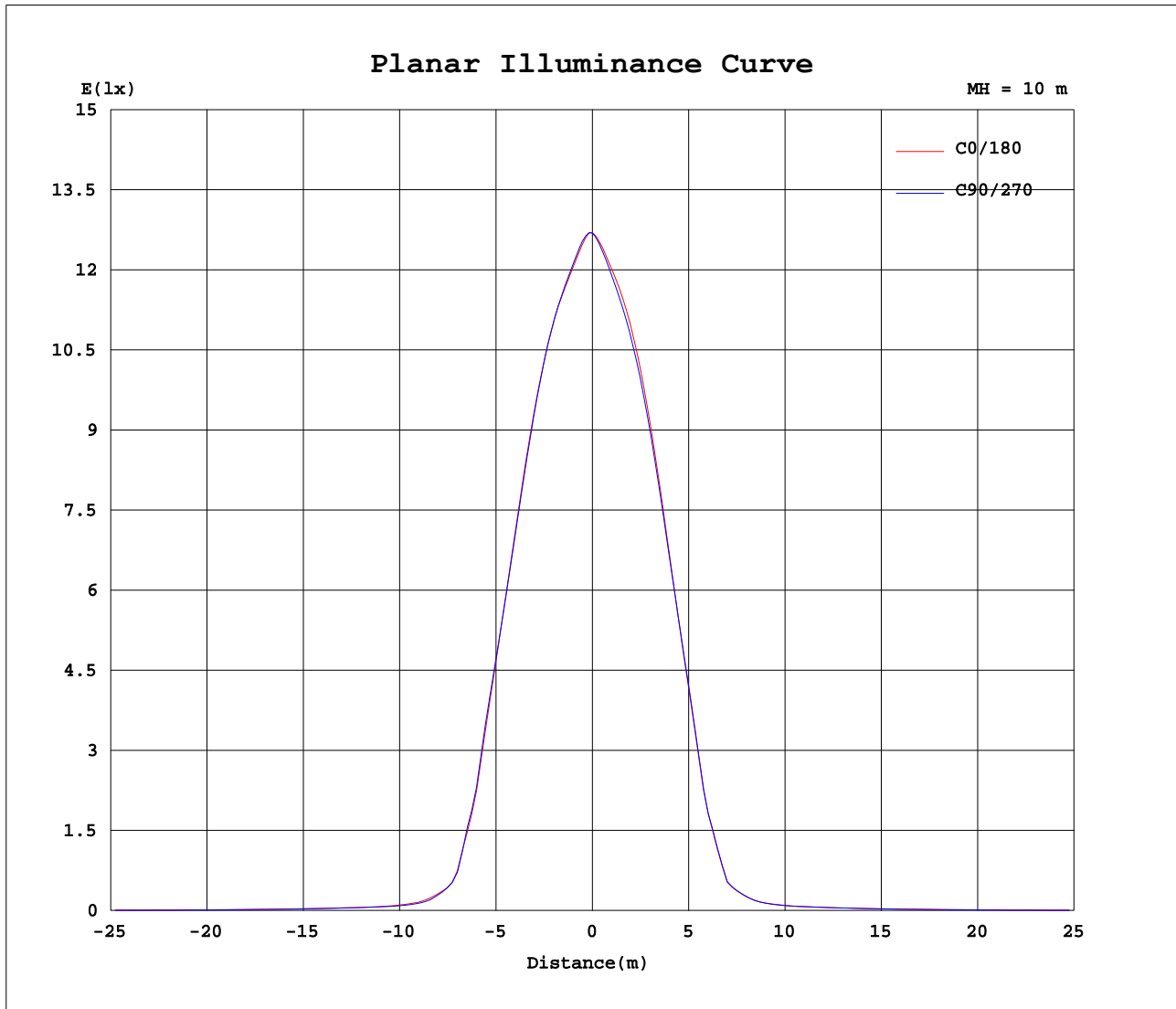
AvgL	cd/m2
L_0~180 (65) av	3896
L_0~180 (75) av	3606
L_0~180 (85) av	2806
L_90~270 (65) av	3427
L_90~270 (75) av	2609
L_90~270 (85) av	237
L_45 (65) av	3624
L_45 (75) av	2982
L_45 (85) av	562

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:31.03V I:0.3500A P:10.86W PF:1.000 Freq:0Hz Lamp Flux:893.389x1 lm		
NAME: T75-11W-940-50	TYPE:Downlight	SERIAL No.:
SPEC.:4000K	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	1270	1269	1270	1269	1270	1269	1269	1268	1268	1268	1268	1267	1270	1269	1270	1269	1270	1269	1269
5	1231	1236	1236	1237	1236	1238	1236	1238	1235	1234	1230	1228	1226	1223	1222	1221	1221	1217	1216
10	1185	1192	1191	1190	1187	1188	1186	1187	1185	1185	1182	1181	1178	1173	1173	1170	1168	1160	1158
15	1109	1121	1120	1120	1116	1115	1106	1106	1101	1103	1098	1096	1087	1078	1080	1078	1078	1069	1067
20	961	977	977	980	971	968	953	953	944	948	936	933	917	901	909	910	915	905	906
25	737	756	758	759	748	750	736	737	724	722	701	695	669	653	666	671	677	665	672
30	435	466	468	471	454	458	449	449	434	427	398	384	348	325	330	332	347	340	350
35	136	177	153	177	140	157	130	153	128	148	117	134	96.7	92.2	91.8	93.0	96.4	94.9	98.6
40	53.3	57.2	57.8	55.2	49.7	46.6	45.9	45.8	47.2	52.1	48.6	47.0	43.8	41.7	42.4	42.3	43.0	41.5	43.6
45	29.6	30.4	29.9	29.4	27.3	26.4	25.9	25.9	26.3	28.1	28.1	28.2	27.5	27.2	27.4	27.4	27.1	26.4	26.5
50	23.3	23.4	23.1	22.9	22.5	22.3	22.2	22.2	22.2	22.6	22.7	23.1	23.1	23.1	23.2	23.2	23.1	22.9	22.9
55	21.2	21.2	20.9	20.6	20.3	20.1	19.8	19.8	19.9	20.2	20.5	20.9	20.9	20.9	20.9	20.8	20.6	20.3	20.3
60	18.4	18.4	18.0	17.6	17.1	16.8	16.5	16.6	16.7	17.0	17.3	17.8	17.9	17.8	17.8	17.6	17.4	17.0	17.0
65	15.3	15.2	14.7	14.3	13.7	13.3	13.1	13.1	13.3	13.7	14.1	14.6	14.8	14.6	14.5	14.1	13.9	13.5	13.5
70	12.1	11.9	11.3	10.8	10.1	9.82	9.52	9.61	9.75	10.2	10.7	11.2	11.6	11.3	11.0	10.6	10.2	9.87	9.85
75	8.86	8.56	7.90	7.28	6.66	6.33	6.08	6.15	6.31	6.77	7.23	7.88	8.24	7.93	7.52	7.02	6.62	6.29	6.29
80	5.62	5.27	4.56	3.90	3.35	3.06	2.82	2.86	2.98	3.37	3.87	4.57	4.94	4.61	4.02	3.44	3.04	2.80	2.82
85	2.54	2.18	1.40	0.82	0.46	0.32	0.25	0.21	0.18	0.28	0.63	0.68	1.94	0.64	0.56	0.15	0.11	0.14	0.12
90	0.37	0.14	0.23	0.17	0.46	0.56	0.57	0.52	0.47	0.14	0.07	0.07	0.05	0.07	0.05	0.05	0.05	0.06	0.05

C Range: 0 - 360DEG
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 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:31.03V I:0.3500A P:10.86W PF:1.000 Freq:0Hz Lamp Flux:893.389x1 lm		
NAME: T75-11W-940-50	TYPE:Downlight	SERIAL No.:
SPEC.:4000K	DIM.: φ85mm*H75mm	
MFR.: NEKO LIGHTING AG		

Table--2

UNIT: cd

C (DEG) γ (DEG)	285	300	315	330	345															
0	1268	1268	1268	1268	1267															
5	1213	1215	1214	1218	1220															
10	1154	1155	1156	1164	1171															
15	1061	1066	1067	1079	1088															
20	900	912	911	926	933															
25	668	681	679	697	703															
30	345	362	368	383	389															
35	95.9	99.6	101	130	112															
40	40.9	43.9	45.1	47.5	48.7															
45	26.4	26.9	27.2	28.0	28.3															
50	22.7	22.8	22.8	22.9	23.0															
55	20.1	20.4	20.5	20.8	20.9															
60	16.9	17.2	17.3	17.7	17.9															
65	13.4	13.8	14.0	14.5	14.8															
70	9.88	10.2	10.6	11.1	11.6															
75	6.38	6.76	7.19	7.76	8.29															
80	2.97	3.37	3.86	4.48	5.07															
85	0.15	0.24	0.55	1.27	2.00															
90	0.07	0.07	0.07	0.07	0.09															

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: