

LED Downlight Start Series T75-7.5W-840-25



Light Output Ratio:	100.0%	
Luminaire Power:	9.114 W	
SHR Nominal:	0.00	Calculated using the TM5
SHR Maximum:	1.00	fine grid method.

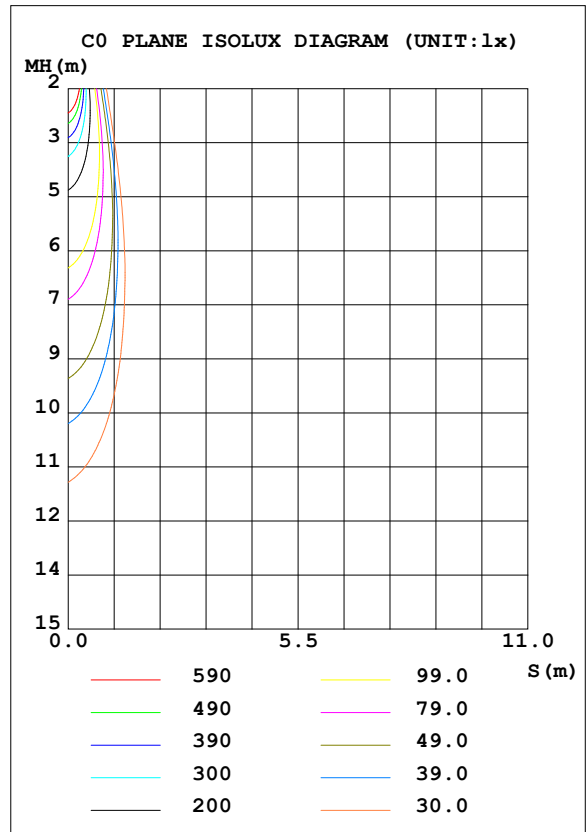
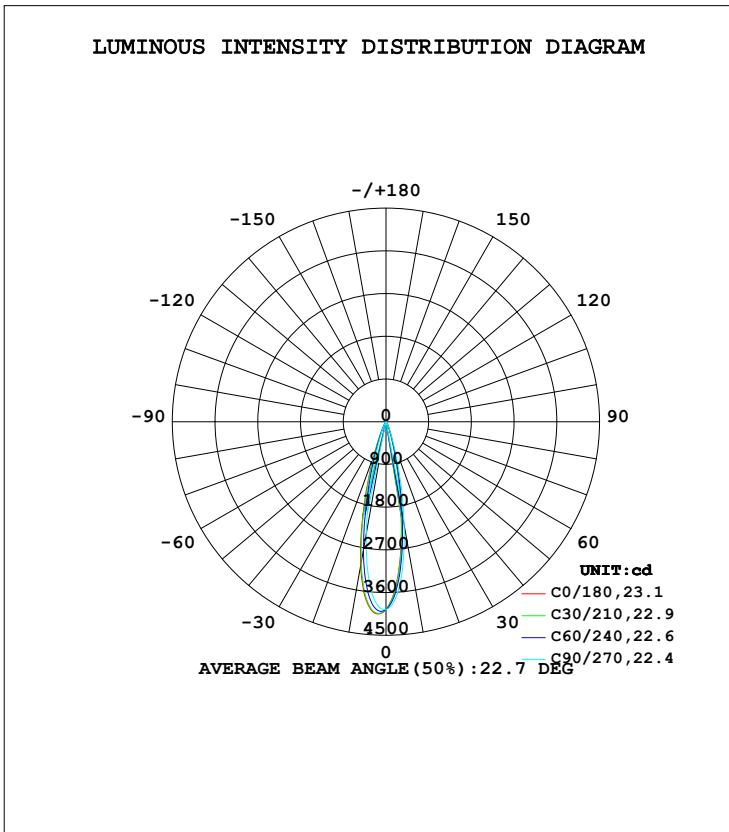
C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: Jason
 Test Date: 2021-03-17

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.362
 Humidity: 58%
 Test Distance: 8.967m [K=1.0000]
 Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:220.2V I:0.0475A P:9.114W PF:0.8694 Freq:49.90Hz Lamp Flux:745.99x1 lm		
NAME: T75-7.5W-840-25	TYPE:Downlight	SERIAL No.:
SPEC.:4000K	DIM.: φ85mm*H75mm	
MFR.: NEKO LIGHTING AG		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 81.85 lm/W			
MODEL	CITIZEN-4000K	I _{max} (cd)	4053	S/MH (C0/180)	0.45
NOMINAL POWER (W)	9	LOR (%)	100.0	S/MH (C90/270)	0.39
RATED VOLTAGE (V)	220	TOTAL FLUX (lm)	745.99	η UP, DN (C0-180)	0.0, 48.0
NOMINAL FLUX (lm)	745.99	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 52.0
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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ZONAL FLUX DIAGRAM

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γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	1791	1929	2199	2724	3075	2830	2397	1947	0- 10	297.4	297.4	39.9,39.9
20	301.2	325.6	383.1	566.5	725.9	580.9	430.9	327.3	10- 20	324.3	621.8	83.3,83.3
30	56.13	66.23	77.11	97.34	113.9	84.55	71.10	59.40	20- 30	93.67	715.4	95.9,95.9
40	10.91	12.87	16.13	18.70	18.67	16.10	14.00	11.25	30- 40	21.60	737.0	98.8,98.8
50	2.917	3.093	3.438	3.703	3.704	3.261	3.100	2.832	40- 50	5.516	742.6	99.5,99.5
60	1.259	1.293	1.464	1.547	1.550	1.473	1.326	1.271	50- 60	1.944	744.5	99.8,99.8
70	0.5612	0.5475	0.6538	0.6897	0.7067	0.6789	0.5584	0.5651	60- 70	0.9580	745.5	99.9,99.9
80	0.2150	0.1668	0.2408	0.2352	0.2409	0.2663	0.1772	0.2043	70- 80	0.4159	745.9	100,100
90	0.0367	0.0313	0.0418	0.0471	0.0576	0.0470	0.0366	0.0366	80- 90	0.1226	746.0	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): 740.65 lm

%lum = 99.3%
%lamp = 99.3%

Conical surface Flux(120deg): 744.49 lm

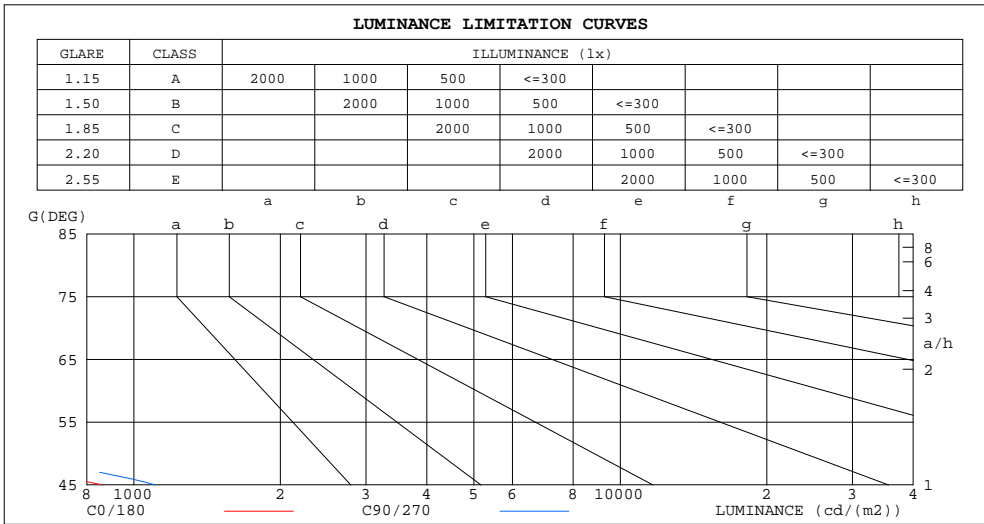
%lum = 99.8%
%lamp = 99.8%

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LUMINANCE LIMITATION CURVES

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LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	131	158
80	135	151
75	150	172
70	179	209
65	222	260
60	274	320
55	369	458
50	494	584
45	862	1107

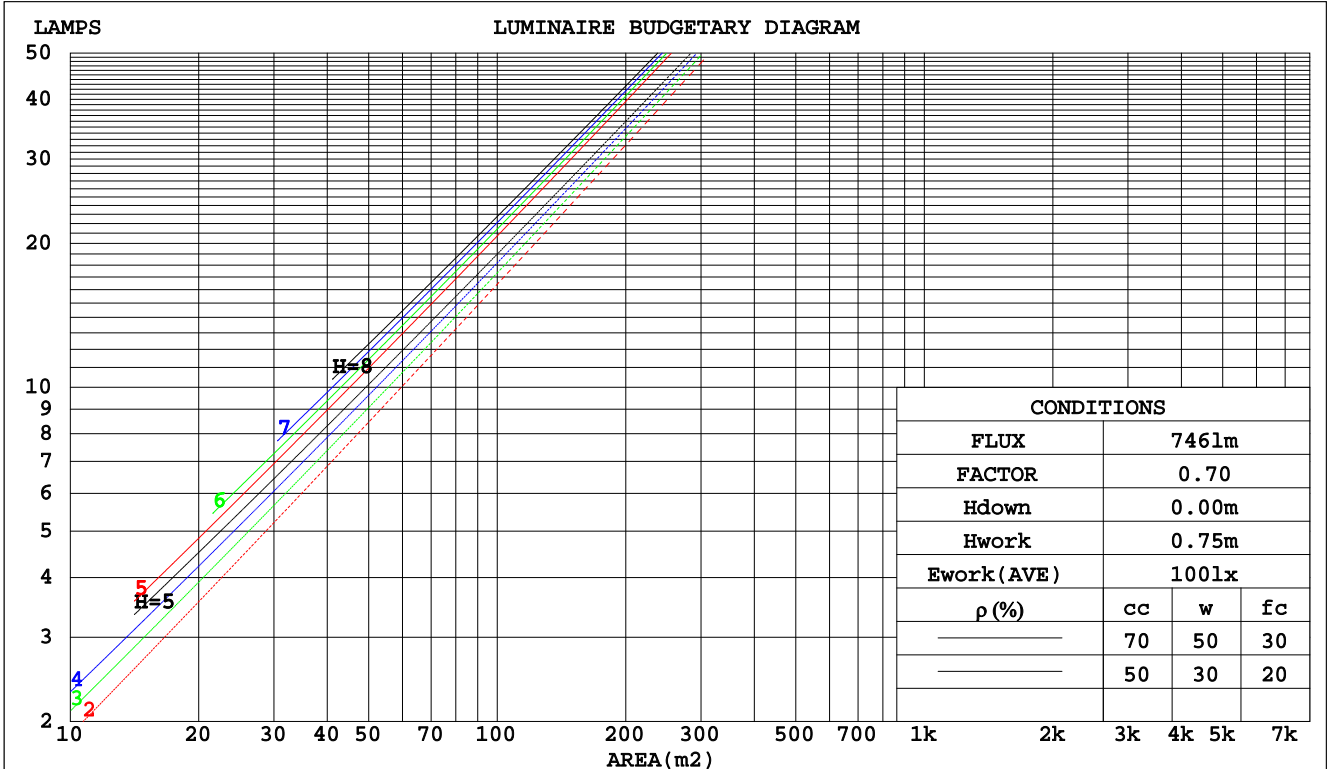
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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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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	1.13	1.11	1.10	1.11	1.09	1.08	1.07	1.06	1.05	1.03	1.02	1.01	1.00	.99	.99	.97
2.0	1.08	1.05	1.03	1.06	1.04	1.02	1.03	1.01	.99	1.00	.99	.97	.98	.97	.95	.94
3.0	1.04	1.00	.97	1.02	.99	.97	.90	.97	.95	.98	.96	.94	.96	.94	.92	.91
4.0	.90	.96	.93	.99	.95	.93	.97	.94	.92	.95	.93	.91	.93	.91	.90	.89
5.0	.97	.93	.90	.96	.92	.89	.94	.91	.89	.93	.90	.88	.91	.89	.87	.86
6.0	.93	.90	.87	.93	.89	.86	.91	.88	.86	.90	.87	.85	.89	.87	.85	.84
7.0	.91	.87	.84	.90	.86	.84	.89	.86	.83	.88	.85	.83	.87	.85	.83	.82
8.0	.88	.84	.82	.88	.84	.81	.87	.83	.81	.86	.83	.81	.85	.82	.81	.80
9.0	.86	.82	.79	.85	.82	.79	.85	.81	.79	.84	.81	.79	.83	.81	.79	.78
10.0	.84	.80	.77	.83	.80	.77	.83	.79	.77	.82	.79	.77	.81	.79	.77	.76



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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	.133	.075	.024	.126	.072	.023	.114	.065	.021	.102	.059	.019	.092	.053	.017	
2.0	.123	.067	.021	.117	.065	.020	.107	.059	.018	.098	.055	.017	.089	.050	.016	
3.0	.114	.061	.018	.109	.059	.018	.101	.055	.017	.093	.051	.016	.086	.047	.015	
4.0	.106	.055	.016	.103	.054	.016	.096	.051	.015	.089	.048	.014	.083	.045	.014	
5.0	.100	.051	.015	.097	.050	.014	.091	.047	.014	.085	.045	.013	.080	.043	.013	
6.0	.094	.047	.014	.092	.046	.013	.087	.044	.013	.082	.042	.012	.077	.041	.012	
7.0	.090	.044	.013	.087	.043	.012	.083	.042	.012	.078	.040	.012	.075	.039	.011	
8.0	.085	.042	.012	.083	.041	.012	.079	.040	.011	.076	.038	.011	.072	.037	.011	
9.0	.081	.039	.011	.080	.039	.011	.076	.038	.011	.073	.037	.010	.070	.035	.010	
10.0	.078	.037	.010	.076	.037	.010	.073	.036	.010	.070	.035	.010	.068	.034	.010	

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	.168	.158	.148	.144	.135	.128	.098	.093	.088	.057	.054	.051	.018	.017	.017	
2.0	.150	.133	.118	.128	.114	.102	.088	.079	.071	.051	.046	.042	.016	.015	.014	
3.0	.134	.113	.096	.115	.098	.084	.079	.068	.059	.046	.040	.035	.015	.013	.011	
4.0	.122	.098	.080	.104	.085	.069	.072	.059	.049	.042	.034	.029	.013	.011	.009	
5.0	.111	.085	.067	.095	.074	.058	.066	.052	.041	.038	.030	.024	.012	.010	.008	
6.0	.102	.075	.056	.088	.065	.049	.060	.046	.035	.035	.027	.021	.011	.009	.007	
7.0	.094	.067	.048	.081	.058	.042	.056	.041	.030	.033	.024	.018	.011	.008	.006	
8.0	.088	.060	.042	.075	.052	.036	.052	.037	.026	.030	.022	.015	.010	.007	.005	
9.0	.082	.055	.036	.070	.047	.032	.049	.033	.022	.028	.020	.013	.009	.006	.004	
10.0	.077	.050	.032	.066	.043	.028	.046	.030	.020	.027	.018	.012	.009	.006	.004	

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 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
 Humidity:58%
 Test Distance:8.967m [K=1.0000]
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:220.2V I:0.0475A P:9.114W PF:0.8694 Freq:49.90Hz Lamp Flux:745.99x1 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	1.6	2.2	1.8	2.4	2.5	2.9	3.5	3.1	3.7	3.8
3H	1.6	2.2	1.8	2.3	2.5	2.9	3.5	3.1	3.7	3.8
4H	1.6	2.1	1.8	2.3	2.5	2.9	3.4	3.1	3.6	3.8
6H	1.5	2.0	1.8	2.3	2.5	2.8	3.3	3.1	3.6	3.8
8H	1.5	2.0	1.8	2.2	2.5	2.8	3.3	3.1	3.5	3.8
12H	1.5	1.9	1.8	2.2	2.5	2.8	3.2	3.1	3.5	3.8
4H 2H	1.5	2.0	1.7	2.2	2.4	2.8	3.3	3.0	3.5	3.7
3H	1.5	2.0	1.8	2.2	2.5	2.8	3.2	3.1	3.5	3.8
4H	1.5	1.9	1.8	2.2	2.5	2.7	3.2	3.1	3.5	3.8
6H	1.4	1.8	1.8	2.2	2.5	2.7	3.1	3.1	3.4	3.8
8H	1.4	1.8	1.8	2.1	2.5	2.7	3.0	3.0	3.4	3.7
12H	1.4	1.7	1.8	2.1	2.5	2.6	3.0	3.0	3.3	3.7
8H 4H	1.4	1.7	1.8	2.1	2.5	2.6	3.0	3.0	3.3	3.7
6H	1.4	1.7	1.8	2.1	2.5	2.6	2.9	3.0	3.3	3.7
8H	1.3	1.6	1.8	2.0	2.5	2.6	2.8	3.0	3.2	3.7
12H	1.3	1.5	1.8	2.0	2.4	2.5	2.8	3.0	3.2	3.7
12H 4H	1.3	1.7	1.7	2.0	2.4	2.6	2.9	3.0	3.3	3.7
6H	1.3	1.6	1.8	2.0	2.4	2.5	2.8	3.0	3.2	3.6
8H	1.3	1.5	1.8	2.0	2.4	2.5	2.7	3.0	3.2	3.6
Variations with the observer position at spacings:										
S = 1.0H	+ 2.7 / - 4.5					+ 3.2 / - 5.1				
1.5H	+ 4.6 / - 3.8					+ 5.3 / - 4.3				
2.0H	+ 3.4 / - 1.9					+ 4.2 / - 2.3				

CIE Pub.117, 746.0 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -1.0)

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UTILIZATION FACTORS TABLE

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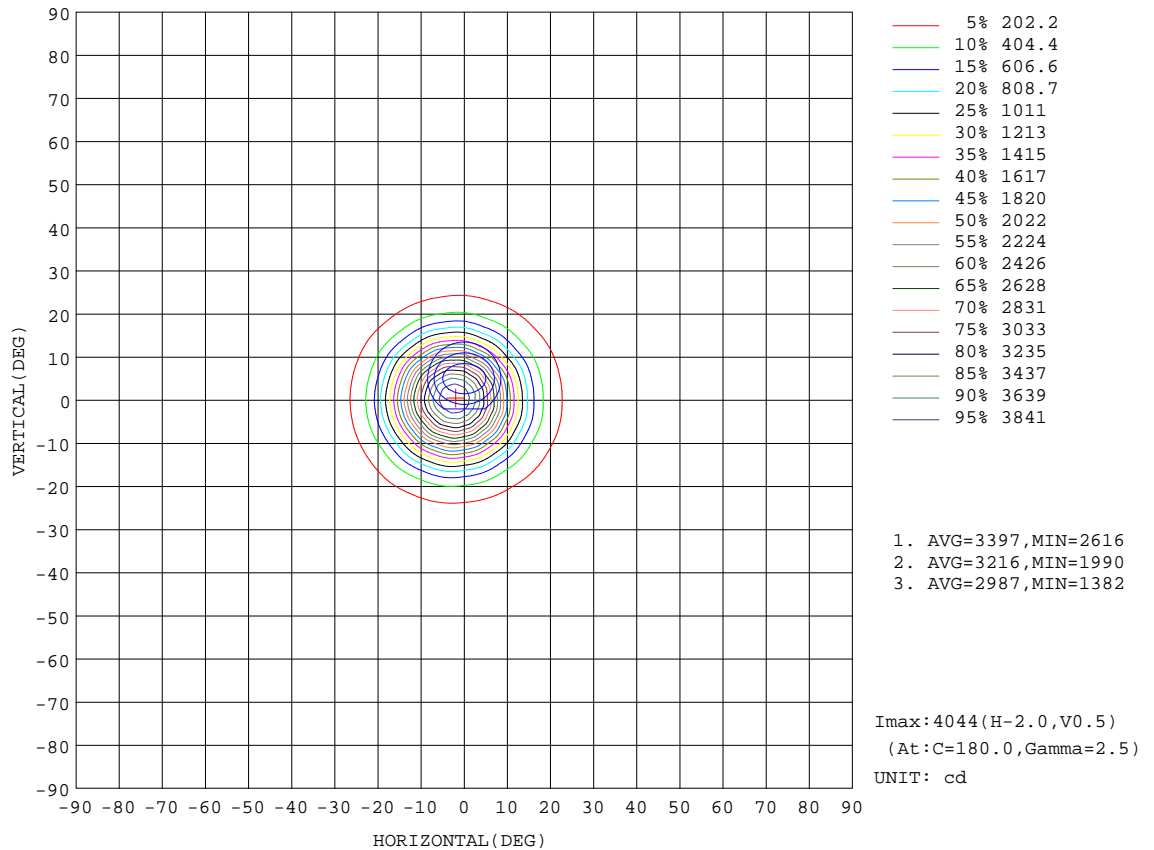
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	91	85	82	90	85	82	90	85	81	78
0.80	98	93	89	97	92	89	96	92	89	85
1.00	102	97	93	101	96	93	99	96	93	89
1.25	105	100	97	104	100	97	102	99	96	92
1.50	108	103	100	106	103	100	104	101	99	95
2.00	110	106	103	108	105	102	106	103	101	96
2.50	111	108	105	110	107	104	107	104	102	97
3.00	113	110	107	111	108	106	108	105	104	98
4.00	114	112	110	112	110	109	109	107	106	99
5.00	116	114	112	114	112	110	110	108	107	100
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNOM = 1.25			

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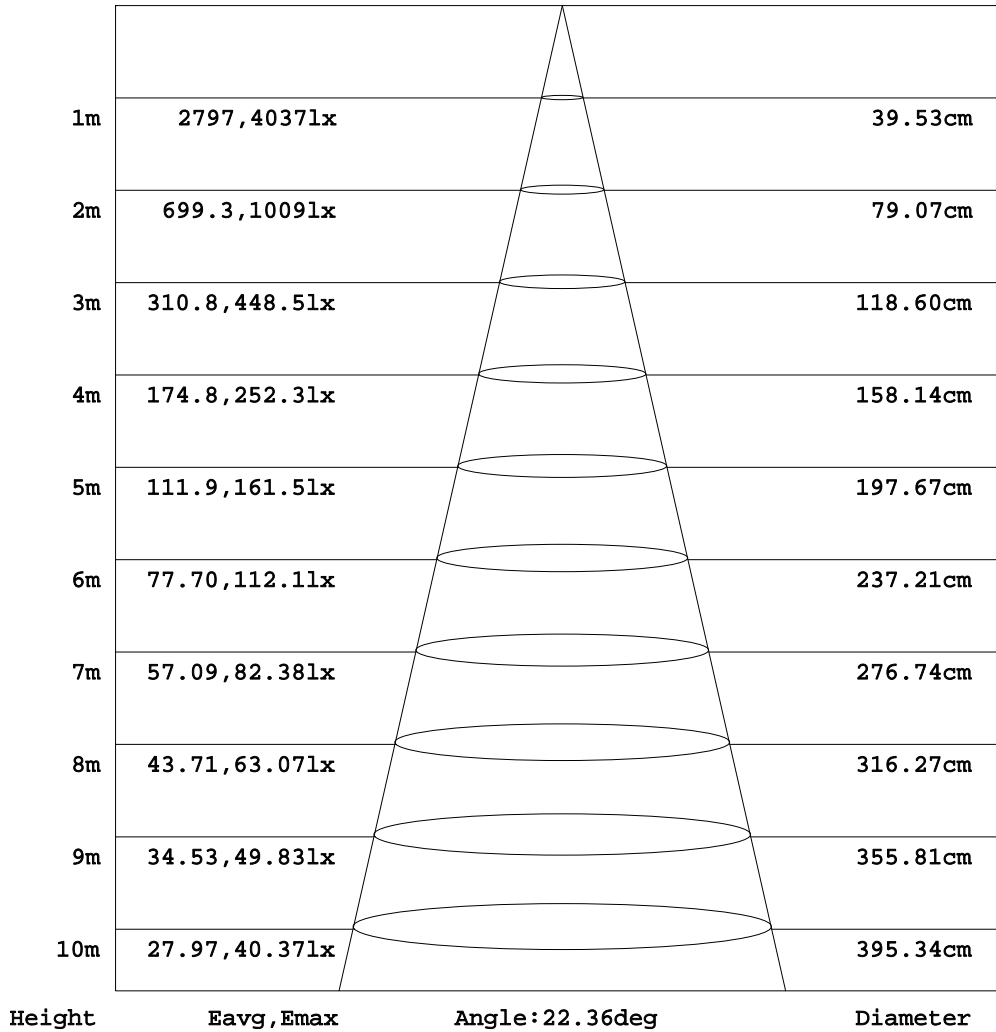
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AAI Figure

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Flux out:363.8 lm



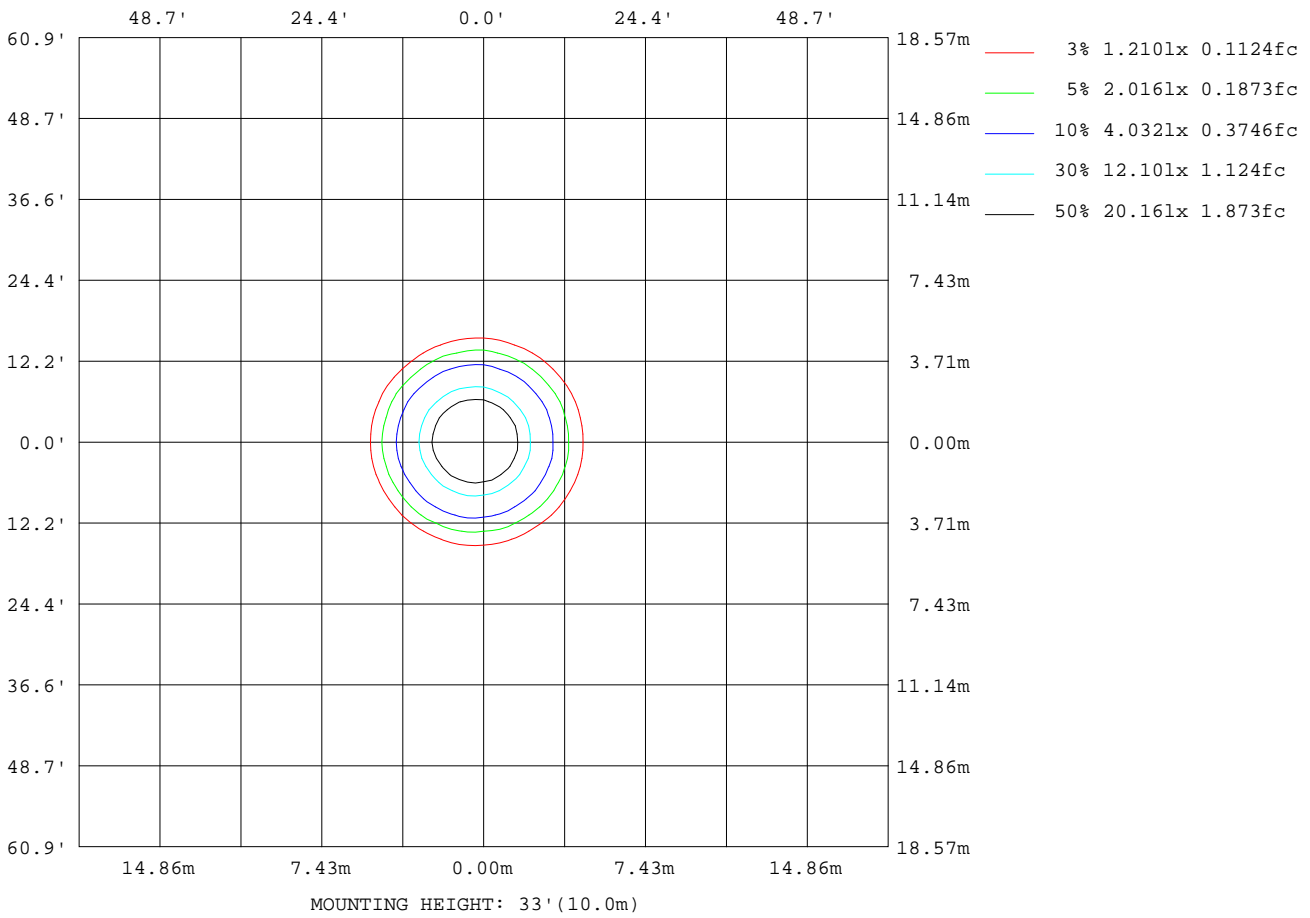
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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ISOLUX DIAGRAM

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LED Avg.L Report

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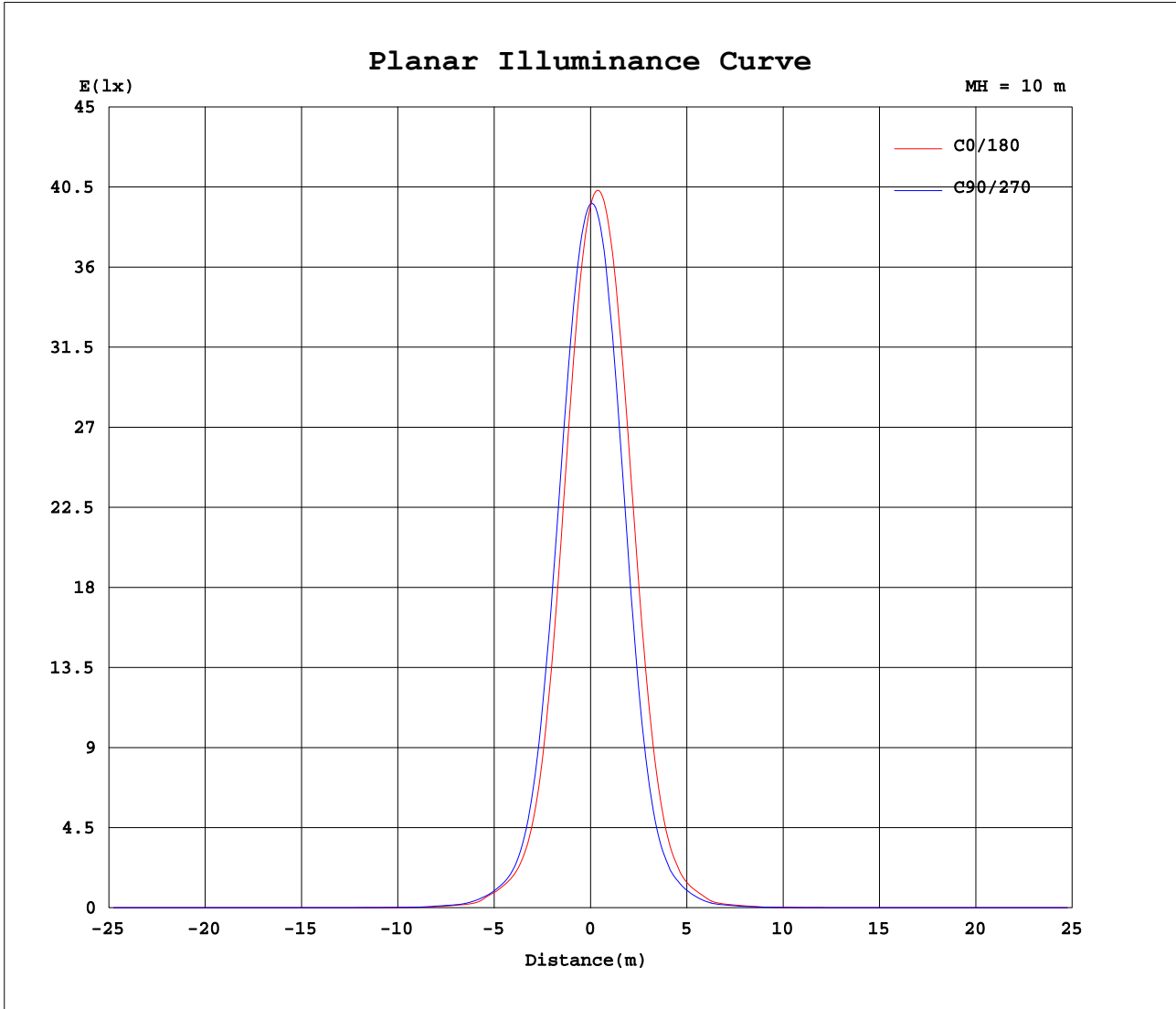
AvgL	cd/m2
L_0~180 (65) av	249
L_0~180 (75) av	168
L_0~180 (85) av	141
L_90~270 (65) av	244
L_90~270 (75) av	157
L_90~270 (85) av	128
L_45 (65) av	245
L_45 (75) av	161
L_45 (85) av	136

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2021-03-17

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity:58%
Test Distance:8.967m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: Jason
 Test Date: 2021-03-17

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.362
 Humidity: 58%
 Test Distance: 8.967m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.2V I:0.0475A P:9.114W PF:0.8694 Freq:49.90Hz Lamp Flux:745.99x1 lm		
NAME: T75-7.5W-840-25	TYPE:Downlight	SERIAL No.:
SPEC.:4000K	DIM.: φ85mm*H75mm	
MFR.: NEKO LIGHTING AG		

Table--1

UNIT: cd

γ (DEG)\C (DEG)	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270
0	3955	3955	3955	3955	3955	3955	3955	3955	3955	3955	3955	3955	3955	3955	3955	3955	3955	3955	3955
5	3129	3162	3151	3227	3255	3353	3423	3545	3622	3749	3796	3892	3936	3907	3912	3821	3772	3639	3560
10	1791	1839	1827	1929	1965	2120	2199	2402	2508	2724	2816	2992	3075	3013	3010	2830	2738	2513	2397
15	761	786	784	838	861	959	1025	1176	1276	1441	1519	1675	1757	1695	1671	1525	1411	1240	1146
20	301	317	305	326	323	363	383	444	485	567	611	686	726	692	675	581	539	462	431
25	151	151	150	152	151	160	169	185	196	220	231	254	265	256	247	217	204	186	179
30	56.1	60.6	60.4	66.2	67.7	74.0	77.1	85.1	88.7	97.3	101	110	114	107	101	84.5	79.9	71.5	71.1
35	26.9	26.9	26.4	28.2	29.6	31.3	31.8	34.0	35.5	37.8	38.0	39.2	38.2	35.8	34.7	33.0	32.8	30.7	29.6
40	10.9	11.5	11.3	12.9	14.0	15.6	16.1	17.7	17.9	18.7	18.0	18.6	18.7	17.8	17.1	16.1	16.2	14.9	14.0
45	5.60	5.67	5.38	5.65	6.24	6.83	7.17	7.73	7.80	7.94	7.79	8.07	7.96	7.43	6.88	6.62	7.06	6.81	6.75
50	2.92	2.96	3.03	3.09	3.17	3.34	3.44	3.61	3.59	3.70	3.61	3.73	3.70	3.49	3.40	3.26	3.27	3.13	3.10
55	1.94	1.98	2.03	2.11	2.21	2.31	2.41	2.41	2.40	2.34	2.34	2.30	2.27	2.26	2.20	2.17	2.11	2.11	2.07
60	1.26	1.23	1.30	1.29	1.37	1.38	1.46	1.49	1.55	1.55	1.59	1.56	1.55	1.56	1.49	1.47	1.40	1.39	1.33
65	0.86	0.82	0.89	0.86	0.94	0.93	1.00	1.00	1.07	1.06	1.11	1.07	1.07	1.08	1.02	1.01	0.94	0.95	0.88
70	0.56	0.52	0.58	0.55	0.61	0.58	0.65	0.65	0.72	0.69	0.75	0.71	0.71	0.73	0.66	0.68	0.60	0.62	0.56
75	0.36	0.31	0.36	0.32	0.38	0.35	0.41	0.39	0.45	0.42	0.48	0.43	0.44	0.48	0.40	0.43	0.36	0.39	0.33
80	0.21	0.16	0.21	0.17	0.22	0.18	0.24	0.21	0.27	0.24	0.30	0.25	0.24	0.29	0.23	0.27	0.19	0.23	0.18
85	0.10	0.07	0.10	0.07	0.11	0.07	0.13	0.08	0.15	0.11	0.16	0.12	0.12	0.15	0.10	0.15	0.08	0.12	0.08
90	0.04	0.03	0.04	0.03	0.04	0.03	0.04	0.04	0.05	0.05	0.06	0.06	0.06	0.06	0.05	0.05	0.04	0.04	0.04

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:Jason
 Test Date:2021-03-17

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
 Humidity:58%
 Test Distance:8.967m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.2V I:0.0475A P:9.114W PF:0.8694 Freq:49.90Hz Lamp Flux:745.99x1 lm		
NAME: T75-7.5W-840-25	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	3955	3955	3955	3955	3955													
5	3433	3361	3257	3229	3154													
10	2183	2103	1947	1915	1820													
15	1000	942	846	832	779													
20	376	363	327	331	307													
25	165	161	156	155	152													
30	64.6	63.5	59.4	59.2	55.9													
35	27.9	27.5	26.0	25.5	25.6													
40	12.8	12.3	11.3	11.3	10.8													
45	6.36	6.20	5.77	5.73	5.57													
50	2.98	2.91	2.83	2.83	2.84													
55	2.08	2.02	1.99	1.96	1.95													
60	1.33	1.26	1.27	1.21	1.25													
65	0.90	0.84	0.86	0.81	0.85													
70	0.59	0.52	0.57	0.51	0.56													
75	0.37	0.32	0.36	0.31	0.35													
80	0.22	0.16	0.20	0.17	0.20													
85	0.10	0.06	0.10	0.07	0.10													
90	0.03	0.03	0.04	0.03	0.04													

C Range: 0 - 360DEG	γ Range: 0 - 90DEG
C Interval: 15.0DEG	γ Interval: 0.5DEG
Test Speed: HIGH	Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Temperature:25.3DEG	Humidity:58%
Operators:Jason	Test Distance:8.967m [K=1.0000]
Test Date:2021-03-17	Remarks: