

LED Downlight DOME Series T100-13W-930-30



Light Output Ratio:	100.0%	
Luminaire Power:	14.65 W	
SHR Nominal:	0.50	Calculated using the TM5
SHR Maximum:	0.50	fine grid method.

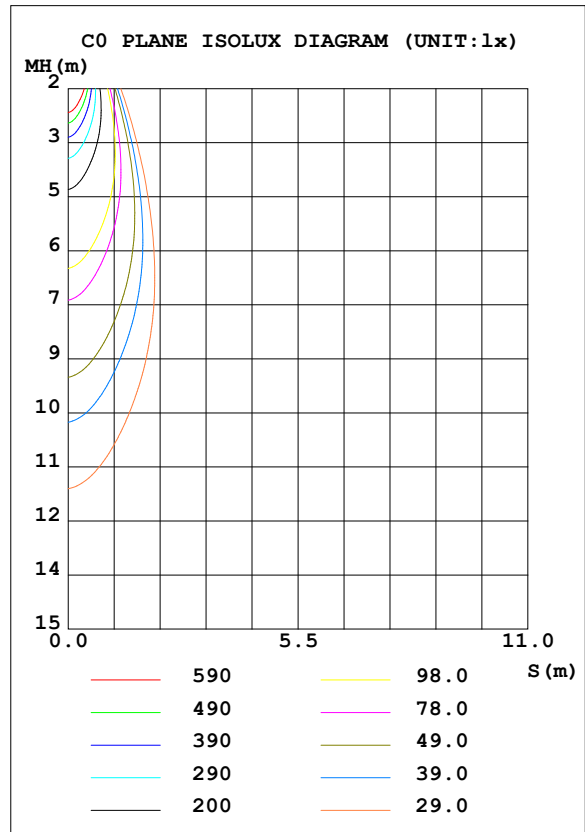
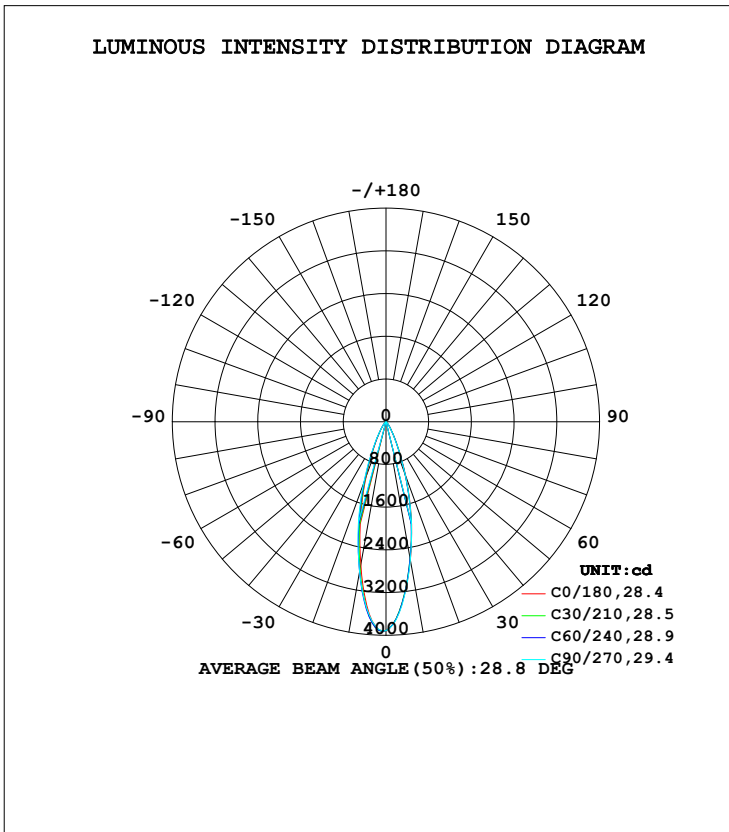
C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: Men Yongjian
 Test Date: 2019-07-03

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.288
 Humidity: 56%
 Test Distance: 5.850m [K=1.0000]
 Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:220.9V I:0.0663A P:14.65W PF:0.9602 Freq:49.90Hz Lamp Flux:1218.31x1 lm		
NAME: T100-13W-930-30	TYPE:Downlight	SERIAL No.:
SPEC.:3000K	DIM.: φ110mm*H79mm	
MFR.: NEKO LIGHTING AG		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 83.17 lm/W			
MODEL	CITIZEN-3000K	I _{max} (cd)	3927	S/MH (C0/180)	0.48
NOMINAL POWER (W)	15	LOR (%)	100.0	S/MH (C90/270)	0.51
RATED VOLTAGE (V)	220	TOTAL FLUX (lm)	1218.3	η UP, DN (C0-180)	0.0, 48.0
NOMINAL FLUX (lm)	1218.31	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 52.0
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	0.50
TEST VOLTAGE (V)	220	η down (%)	100.0	CIBSE SHR MAX	0.50



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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	2628	2614	2634	2643	2723	2805	2853	2728	0- 10	309.4	309.4	25.4,25.4
20	1086	1054	1052	1038	1094	1139	1234	1156	10- 20	507.4	816.9	67,67
30	262.3	254.2	248.0	255.0	285.0	295.5	312.8	286.7	20- 30	268.6	1085	89.1,89.1
40	66.56	66.69	71.35	77.91	82.09	83.32	82.83	74.26	30- 40	93.11	1179	96.7,96.7
50	13.74	13.50	14.71	17.12	17.65	17.25	16.97	15.82	40- 50	28.18	1207	99.1,99.1
60	3.766	3.536	3.950	4.795	4.593	4.292	4.451	4.487	50- 60	7.756	1214	99.7,99.7
70	1.372	1.244	1.385	1.738	1.698	1.603	1.681	1.704	60- 70	2.679	1217	99.9,99.9
80	0.3629	0.3010	0.3486	0.4283	0.4401	0.4484	0.4610	0.4733	70- 80	0.9334	1218	100,100
90	0.0502	0.0502	0.0525	0.0525	0.0502	0.0568	0.0460	0.0372	80- 90	0.2018	1218	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): 1198 lm

%lum = 98.3%
%lamp = 98.3%

Conical surface Flux(120deg): 1214.5 lm

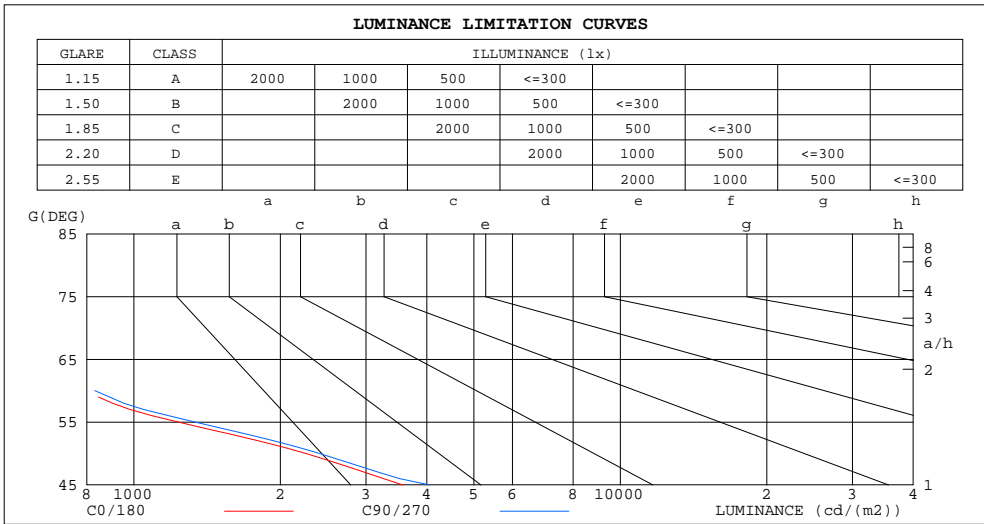
%lum = 99.7%
%lamp = 99.7%

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LUMINANCE LIMITATION CURVES

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LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	180	175
80	220	211
75	304	298
70	423	426
65	585	599
60	794	831
55	1233	1336
50	2255	2407
45	3571	4052

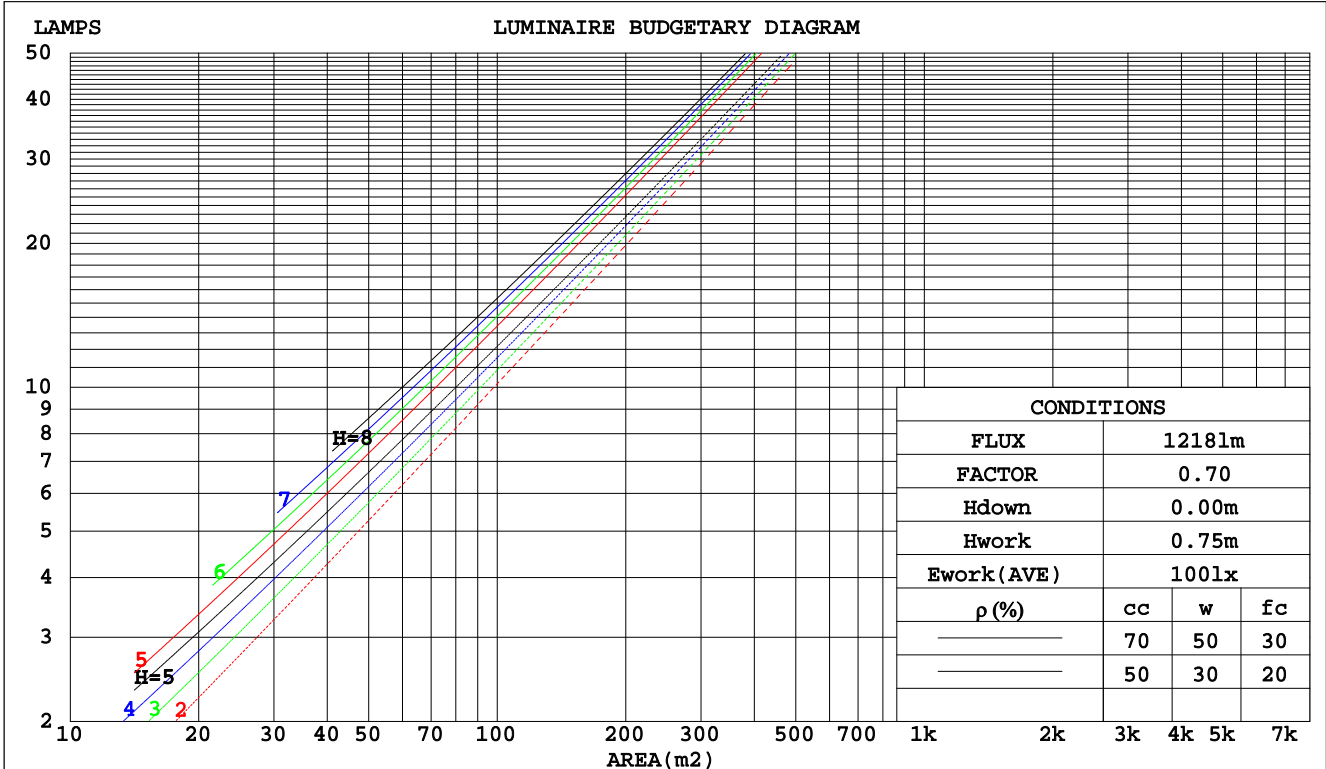
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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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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	.00
1.0	1.12	1.10	1.08	1.10	1.08	1.07	1.06	1.05	1.03	1.02	1.01	1.00	.99	.98	.97	.96
2.0	1.06	1.03	1.00	1.04	1.01	.99	1.01	.99	.97	.98	.96	.95	.96	.94	.93	.91
3.0	1.01	.97	.94	.99	.96	.93	.97	.94	.91	.95	.92	.90	.92	.90	.89	.87
4.0	.96	.92	.88	.95	.91	.88	.93	.89	.87	.91	.88	.86	.89	.87	.85	.83
5.0	.92	.87	.84	.91	.86	.83	.89	.85	.83	.88	.84	.82	.86	.83	.81	.80
6.0	.88	.83	.80	.87	.83	.79	.86	.82	.79	.84	.81	.78	.83	.80	.78	.77
7.0	.84	.79	.76	.84	.79	.76	.82	.78	.76	.81	.78	.75	.80	.77	.75	.74
8.0	.81	.76	.73	.80	.76	.73	.80	.75	.73	.79	.75	.72	.78	.74	.72	.71
9.0	.78	.73	.70	.78	.73	.70	.77	.73	.70	.76	.72	.70	.75	.72	.69	.68
10.0	.75	.71	.68	.75	.70	.68	.74	.70	.67	.73	.70	.67	.73	.69	.67	.66



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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	.150	.085	.027	.144	.082	.026	.131	.075	.024	.120	.069	.022	.109	.063	.020	
2.0	.141	.077	.024	.136	.075	.023	.125	.070	.022	.116	.065	.020	.107	.060	.019	
3.0	.133	.071	.021	.128	.069	.021	.119	.065	.020	.111	.061	.019	.104	.058	.018	
4.0	.125	.065	.019	.121	.063	.019	.114	.060	.018	.107	.057	.017	.101	.055	.017	
5.0	.119	.060	.018	.115	.059	.017	.109	.057	.017	.103	.054	.016	.097	.052	.016	
6.0	.113	.056	.016	.110	.055	.016	.104	.053	.016	.099	.052	.015	.094	.050	.015	
7.0	.107	.053	.015	.105	.052	.015	.100	.051	.015	.096	.049	.014	.091	.047	.014	
8.0	.103	.050	.014	.100	.049	.014	.096	.048	.014	.092	.047	.013	.088	.045	.013	
9.0	.098	.048	.013	.096	.047	.013	.092	.046	.013	.089	.045	.013	.086	.043	.013	
10.0	.094	.045	.013	.092	.045	.012	.089	.044	.012	.086	.043	.012	.083	.042	.012	

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	.169	.158	.147	.145	.135	.127	.099	.093	.087	.057	.054	.051	.018	.017	.016	
2.0	.152	.133	.116	.130	.114	.100	.089	.079	.070	.051	.046	.041	.017	.015	.013	
3.0	.138	.113	.094	.118	.098	.081	.081	.068	.057	.047	.040	.034	.015	.013	.011	
4.0	.126	.098	.077	.108	.085	.067	.075	.059	.047	.043	.035	.028	.014	.011	.009	
5.0	.116	.086	.064	.100	.075	.055	.069	.052	.039	.040	.031	.023	.013	.010	.008	
6.0	.108	.076	.054	.093	.066	.047	.064	.046	.033	.037	.027	.020	.012	.009	.006	
7.0	.101	.068	.046	.087	.059	.040	.060	.042	.028	.035	.025	.017	.011	.008	.006	
8.0	.095	.062	.039	.082	.054	.034	.056	.038	.024	.033	.022	.014	.011	.007	.005	
9.0	.089	.056	.034	.077	.049	.030	.053	.034	.021	.031	.020	.013	.010	.007	.004	
10.0	.085	.052	.030	.073	.045	.026	.051	.032	.019	.029	.019	.011	.010	.006	.004	

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 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.288
 Humidity:56%
 Test Distance:5.850m [K=1.0000]
 Remarks:

UGR(Unified Glare Rating) Table

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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	9.2	10.0	9.4	10.1	10.3	9.2	9.9	9.4	10.1	10.2
3H	9.1	9.8	9.3	10.0	10.2	9.1	9.7	9.3	9.9	10.1
4H	9.0	9.7	9.3	9.9	10.1	9.0	9.6	9.2	9.9	10.1
6H	8.9	9.6	9.2	9.8	10.0	8.9	9.5	9.2	9.8	10.0
8H	8.9	9.5	9.2	9.7	10.0	8.9	9.5	9.2	9.7	10.0
12H	8.9	9.4	9.2	9.7	10.0	8.8	9.4	9.1	9.7	9.9
4H 2H	9.0	9.7	9.3	9.9	10.1	9.0	9.6	9.2	9.8	10.1
3H	8.9	9.5	9.2	9.7	10.0	8.8	9.4	9.2	9.7	9.9
4H	8.8	9.3	9.1	9.6	9.9	8.8	9.3	9.1	9.6	9.9
6H	8.7	9.2	9.1	9.5	9.8	8.7	9.1	9.0	9.5	9.8
8H	8.7	9.1	9.0	9.4	9.8	8.6	9.1	9.0	9.4	9.8
12H	8.6	9.0	9.0	9.4	9.8	8.6	9.0	9.0	9.3	9.7
8H 4H	8.7	9.1	9.0	9.4	9.8	8.6	9.0	9.0	9.4	9.8
6H	8.6	8.9	9.0	9.3	9.7	8.5	8.9	8.9	9.3	9.7
8H	8.5	8.8	8.9	9.2	9.7	8.5	8.8	8.9	9.2	9.6
12H	8.4	8.7	8.9	9.2	9.6	8.4	8.7	8.9	9.1	9.6
12H 4H	8.6	9.0	9.0	9.4	9.7	8.6	9.0	9.0	9.3	9.7
6H	8.5	8.8	8.9	9.2	9.7	8.5	8.8	8.9	9.2	9.6
8H	8.4	8.7	8.9	9.2	9.6	8.4	8.7	8.9	9.1	9.6
Variations with the observer position at spacings:										
S = 1.0H	+ 3.2 / - 8.5					+ 3.0 / - 8.5				
1.5H	+ 5.3 / - 7.0					+ 5.1 / - 7.2				
2.0H	+ 4.6 / - 4.6					+ 5.2 / - 4.9				

CIE Pub.117, 1218 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 0.7)

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UTILIZATION FACTORS TABLE

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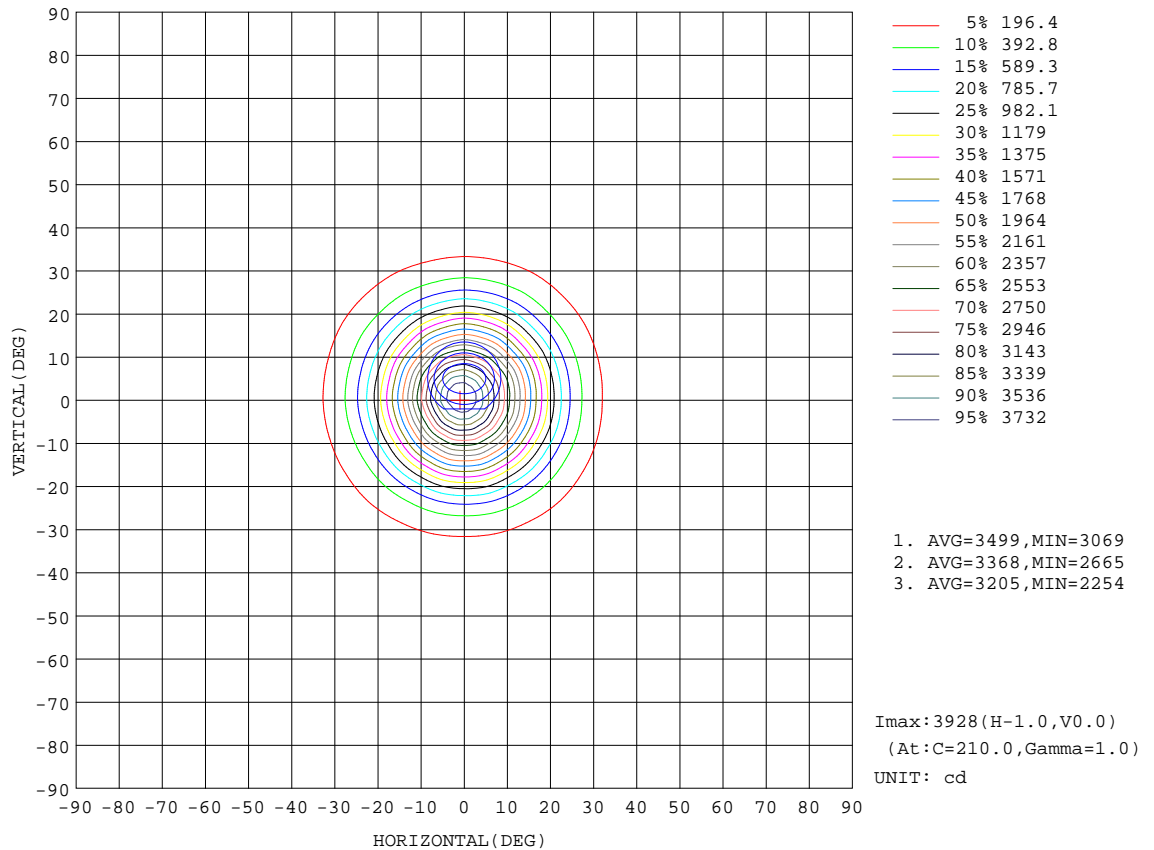
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	90	84	80	89	83	80	88	83	80	76
0.80	97	91	88	96	91	88	95	90	87	84
1.00	101	96	92	100	95	92	98	95	91	88
1.25	104	100	96	103	99	96	102	98	95	91
1.50	107	103	99	106	102	99	104	100	98	94
2.00	109	105	102	108	104	102	105	102	100	95
2.50	111	107	105	109	106	104	106	104	102	96
3.00	112	109	107	111	108	105	107	105	103	97
4.00	114	112	110	112	110	108	109	107	106	99
5.00	115	113	112	113	112	110	109	108	107	100
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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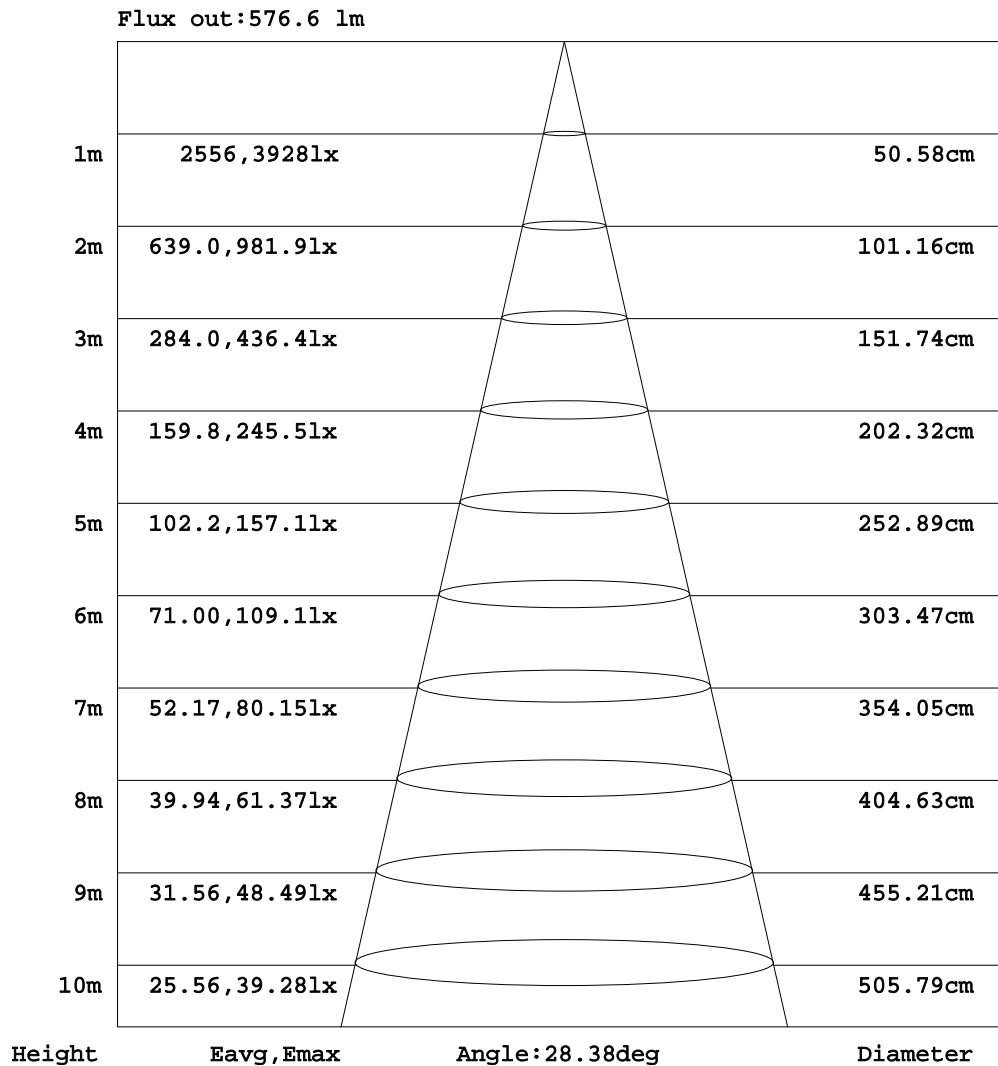


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AAI Figure

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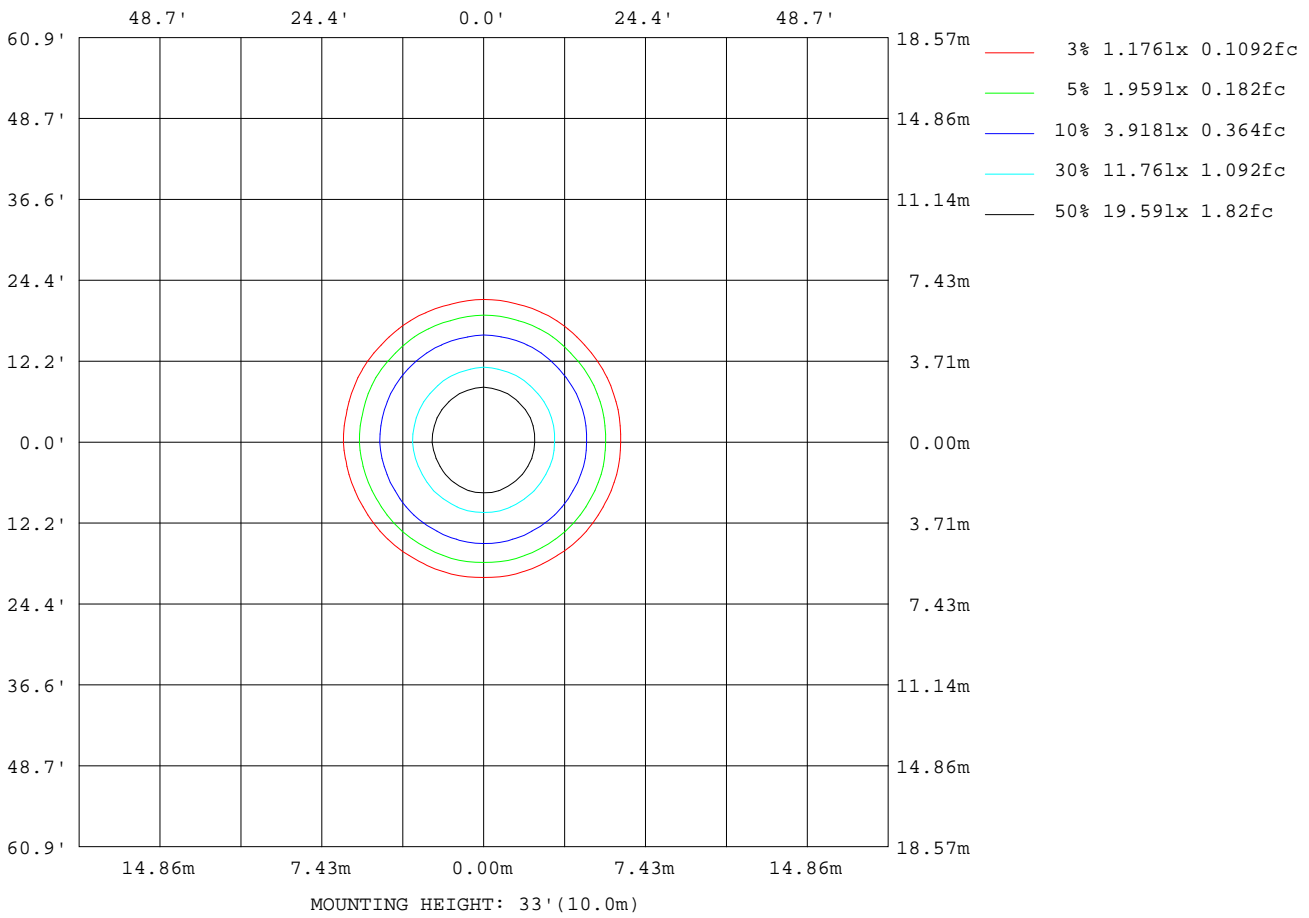
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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ISOLUX DIAGRAM

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LED Avg.L Report

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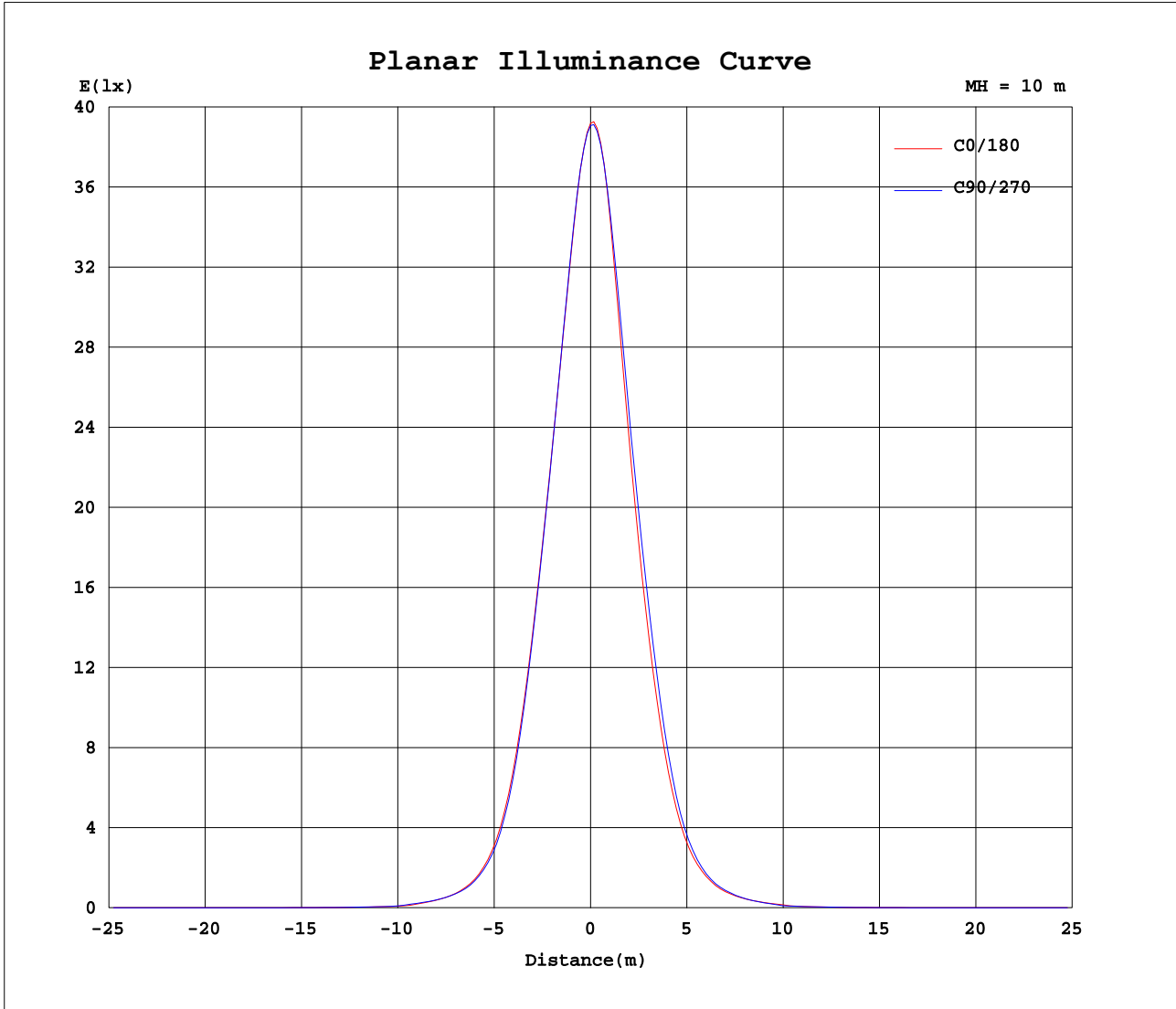
AvgL	cd/m2
L_0~180 (65) av	647
L_0~180 (75) av	337
L_0~180 (85) av	195
L_90~270 (65) av	647
L_90~270 (75) av	336
L_90~270 (85) av	200
L_45 (65) av	662
L_45 (75) av	345
L_45 (85) av	201

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Men Yongjian
Test Date:2019-07-03

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.288
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: Men Yongjian
 Test Date: 2019-07-03

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.288
 Humidity: 56%
 Test Distance: 5.850m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.9V I:0.0663A P:14.65W PF:0.9602 Freq:49.90Hz Lamp Flux:1218.31x1 lm		
NAME: T100-13W-930-30	TYPE:Downlight	SERIAL No.:
SPEC.:3000K	DIM.: φ110mm*H79mm	
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	3911	3911	3911	3911	3911	3911	3911	3911	3911	3911	3911	3911	3911	3911	3911	3911	3911	3911	3911
5	3426	3435	3418	3435	3425	3451	3448	3475	3472	3507	3509	3555	3611	3612	3648	3637	3661	3635	3632
10	2628	2627	2600	2614	2605	2646	2634	2657	2627	2643	2623	2656	2723	2737	2800	2805	2859	2839	2853
15	1826	1821	1796	1800	1794	1829	1811	1825	1784	1789	1762	1785	1833	1842	1889	1902	1965	1970	2009
20	1086	1075	1050	1054	1044	1070	1052	1057	1030	1038	1028	1053	1094	1099	1133	1139	1185	1196	1234
25	546	540	525	524	516	522	512	513	501	510	511	534	566	574	588	596	612	621	636
30	262	260	252	254	249	252	248	252	248	255	257	269	285	287	299	295	305	302	313
35	131	131	126	129	125	129	128	132	132	136	136	141	147	148	154	153	157	156	160
40	66.6	66.0	65.6	66.7	67.8	70.0	71.4	74.1	75.6	77.9	77.9	79.0	82.1	82.3	84.0	83.3	84.3	82.4	82.8
45	23.9	23.9	23.5	24.1	24.3	26.2	27.2	29.6	30.9	35.5	36.4	39.5	42.0	40.5	40.9	37.6	36.5	32.1	31.0
50	13.7	13.6	13.3	13.5	13.5	14.2	14.7	15.7	16.3	17.1	17.1	17.3	17.7	17.4	17.6	17.3	17.4	17.0	17.0
55	6.71	6.60	6.37	6.48	6.52	6.94	7.28	7.98	8.41	8.97	8.92	9.05	9.26	9.03	9.15	8.89	9.02	8.72	8.83
60	3.77	3.65	3.50	3.54	3.56	3.76	3.95	4.31	4.58	4.80	4.73	4.66	4.59	4.42	4.40	4.29	4.36	4.32	4.45
65	2.34	2.24	2.15	2.15	2.18	2.29	2.41	2.64	2.81	2.97	2.93	2.89	2.85	2.74	2.72	2.66	2.71	2.70	2.79
70	1.37	1.30	1.25	1.24	1.26	1.31	1.38	1.52	1.64	1.74	1.74	1.72	1.70	1.64	1.62	1.60	1.63	1.64	1.68
75	0.75	0.69	0.67	0.65	0.67	0.68	0.73	0.79	0.86	0.91	0.93	0.92	0.91	0.90	0.88	0.89	0.90	0.91	0.92
80	0.36	0.32	0.32	0.30	0.32	0.31	0.35	0.36	0.41	0.43	0.46	0.44	0.44	0.45	0.43	0.45	0.44	0.47	0.46
85	0.15	0.12	0.13	0.11	0.13	0.12	0.14	0.14	0.17	0.17	0.19	0.17	0.17	0.19	0.17	0.19	0.18	0.20	0.19
90	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.06	0.06	0.05	0.05	0.05	0.06	0.05	0.05	0.05

C Range: 0 - 360DEG γ Range: 0 - 90DEG
 C Interval: 15.0DEG γ Interval: 1.0DEG
 Test Speed: HIGH Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.288
 Temperature:25.3DEG Humidity:56%
 Operators:Men Yongjian Test Distance:5.850m [K=1.0000]
 Test Date:2019-07-03 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.9V I:0.0663A P:14.65W PF:0.9602 Freq:49.90Hz Lamp Flux:1218.31x1 lm		
NAME: T100-13W-930-30	TYPE:Downlight	SERIAL No.:
SPEC.:3000K	DIM.: φ110mm*H79mm	
MFR.: NEKO LIGHTING AG		

Table--2

UNIT: cd

C (DEG) γ (DEG)	285	300	315	330	345															
0	3911	3911	3911	3911	3911															
5	3585	3569	3517	3502	3462															
10	2795	2786	2728	2730	2684															
15	1975	1972	1916	1914	1874															
20	1212	1200	1156	1151	1119															
25	632	622	594	584	571															
30	306	305	287	284	272															
35	157	156	147	144	138															
40	80.5	78.7	74.3	72.5	69.3															
45	29.4	28.9	27.1	26.4	25.0															
50	16.6	16.4	15.8	15.4	14.6															
55	8.59	8.67	8.19	7.87	7.25															
60	4.48	4.61	4.49	4.35	4.04															
65	2.82	2.91	2.85	2.74	2.53															
70	1.70	1.75	1.70	1.63	1.50															
75	0.94	0.96	0.94	0.88	0.81															
80	0.48	0.47	0.47	0.43	0.41															
85	0.21	0.19	0.19	0.17	0.16															
90	0.05	0.04	0.04	0.04	0.04															

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:Men Yongjian
 Test Date:2019-07-03

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.288
 Humidity:56%
 Test Distance:5.850m [K=1.0000]
 Remarks: