

LED Downlight DOME Series T100-13W-940-50



Light Output Ratio:	100.0%	
Luminaire Power:	14.58 W	
SHR Nominal:	0.75	Calculated using the TM5
SHR Maximum:	0.75	fine grid method.

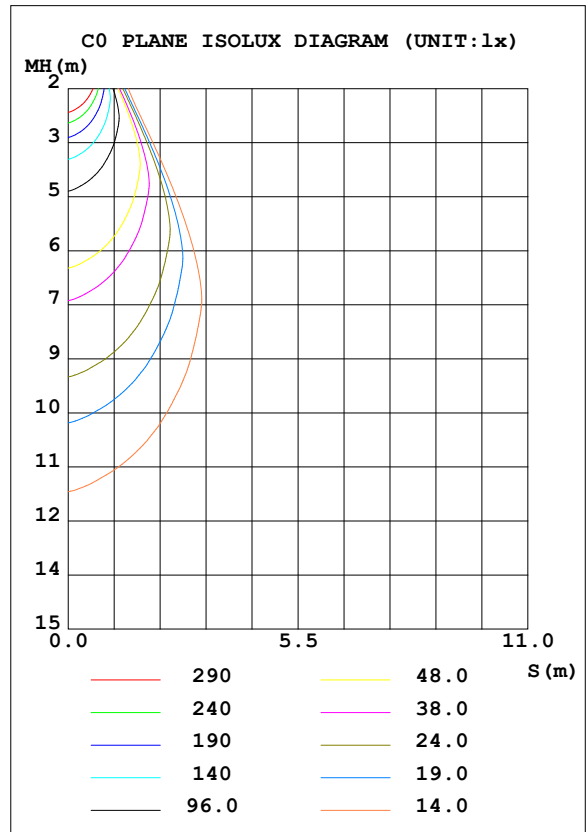
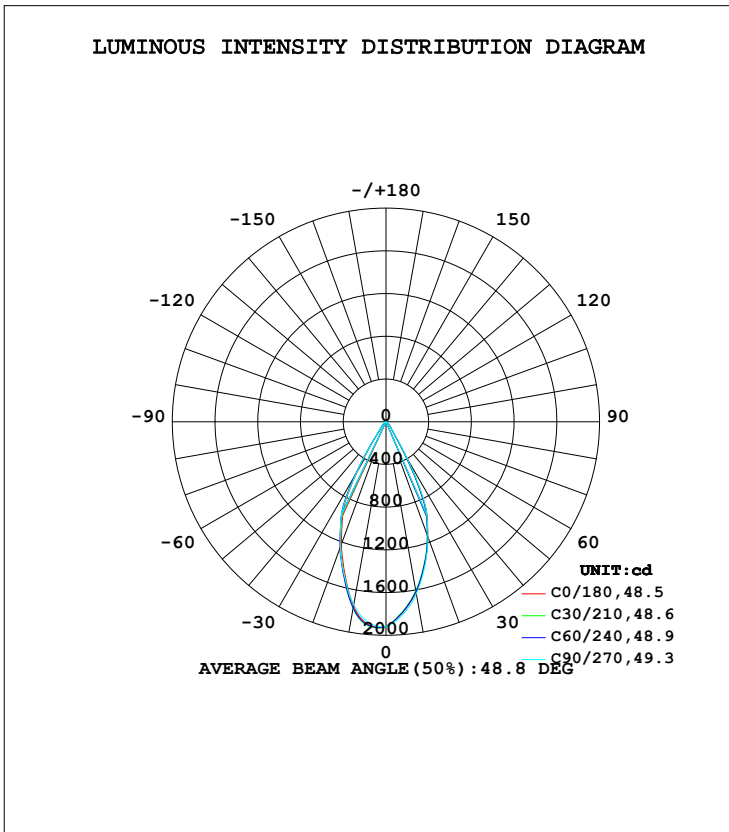
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Men Yongjian
Test Date: 2019-07-03

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:0.0660A P:14.58W PF:0.9601 Freq:49.89Hz Lamp Flux:1152.78x1 lm		
NAME: T100-13W-940-50	TYPE:Downlight	SERIAL No.:
SPEC.:4000K	DIM.: φ110mm*H79mm	
MFR.: NEKO LIGHTING AG		

DATA OF LAMP		PHOTOMETRIC DATA			
MODEL	CITIZEN-4000K	Imax (cd)	1933	S/MH (C0/180)	0.76
NOMINAL POWER (W)	15	LOR (%)	100.0	S/MH (C90/270)	0.77
RATED VOLTAGE (V)	220	TOTAL FLUX (lm)	1152.8	η UP, DN (C0-180)	0.0, 47.9
NOMINAL FLUX (lm)	1152.78	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 52.1
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	0.75
TEST VOLTAGE (V)	220	η down (%)	100.0	CIBSE SHR MAX	0.75



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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	1619	1612	1636	1689	1751	1769	1741	1668	0- 10	171.3	171.3	14.9,14.9
20	1145	1138	1148	1186	1220	1245	1253	1198	10- 20	401.9	573.3	49.7,49.7
30	376.9	364.8	390.5	465.2	544.2	574.5	572.0	474.9	20- 30	401.4	974.7	84.5,84.5
40	70.91	71.38	73.20	76.00	72.50	71.83	73.70	74.81	30- 40	109.9	1085	94.1,94.1
50	32.39	31.45	32.32	33.50	31.23	30.84	33.62	35.39	40- 50	38.95	1124	97.5,97.5
60	11.75	10.81	10.99	11.78	10.60	10.33	12.02	13.44	50- 60	17.91	1141	99,99
70	5.021	4.565	4.431	4.731	4.350	4.362	5.158	5.831	60- 70	7.700	1149	99.7,99.7
80	1.486	1.284	1.172	1.212	1.131	1.210	1.511	1.747	70- 80	3.005	1152	99.9,99.9
90	0.0656	0.0634	0.0678	0.0656	0.0416	0.0503	0.0525	0.0481	80- 90	0.6169	1153	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): 1107 lm

%lum = 96.0%
%lamp = 96.0%

Conical surface Flux(120deg): 1141.5 lm

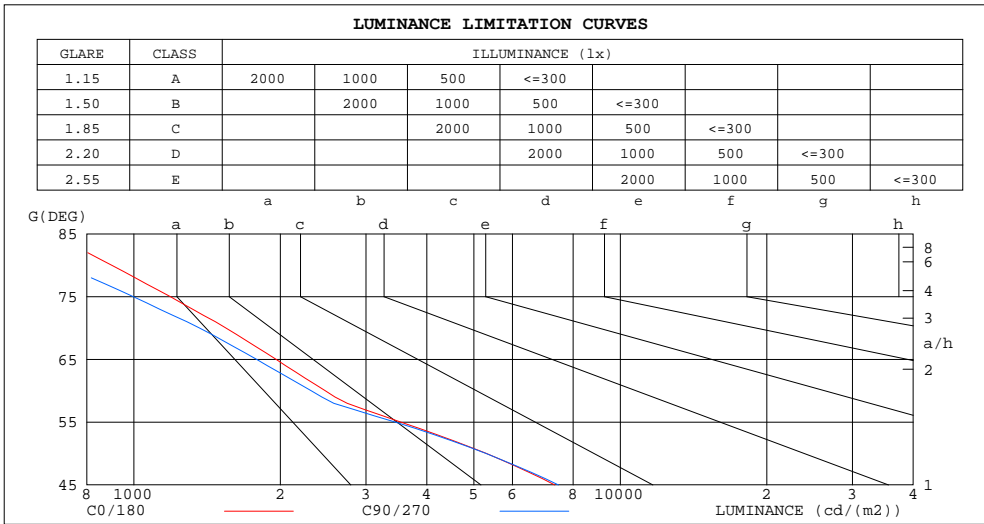
%lum = 99.0%
%lamp = 99.0%

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LUMINANCE LIMITATION CURVES

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LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	697	527
80	900	711
75	1187	996
70	1545	1364
65	1960	1787
60	2472	2313
55	3534	3444
50	5302	5293
45	7333	7461

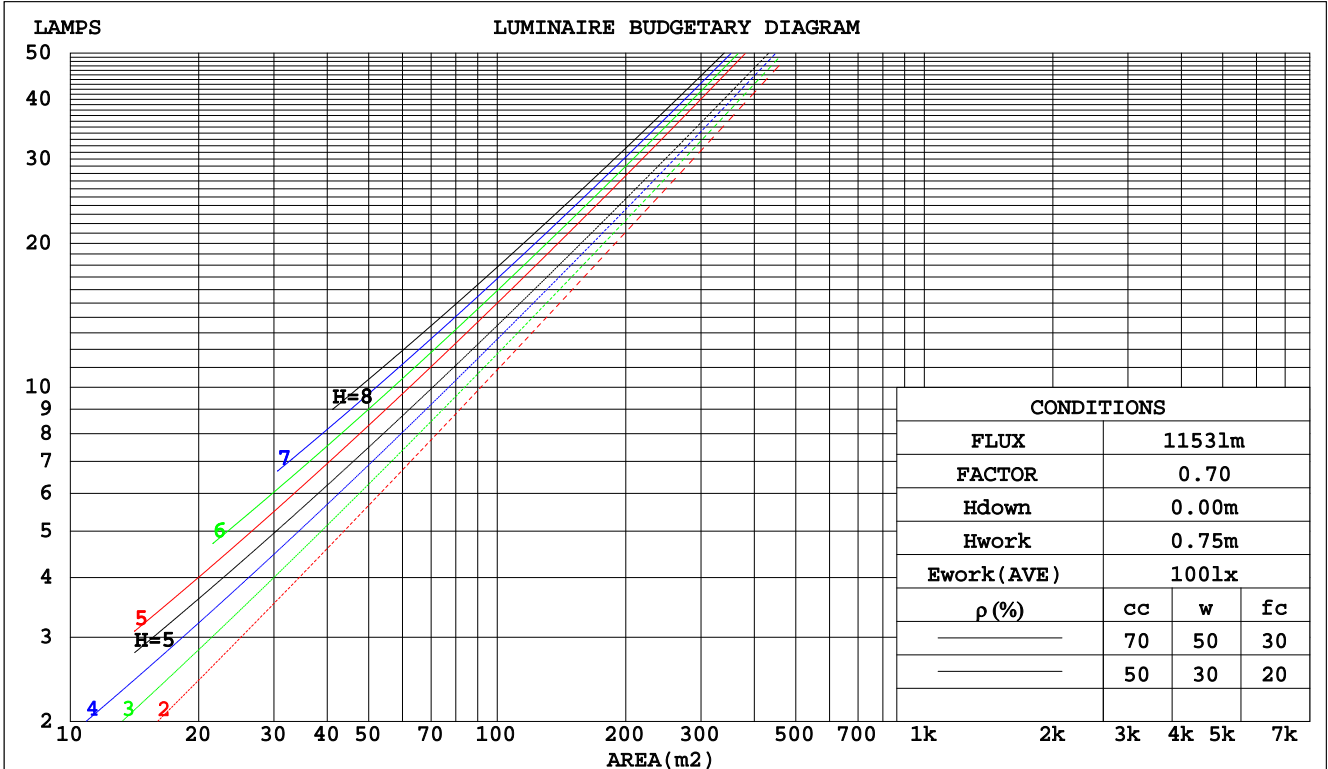
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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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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	1.11	1.09	1.07	1.09	1.07	1.05	1.05	1.03	1.02	1.01	1.00	.99	.98	.97	.96	.94
2.0	1.04	1.01	.97	1.03	.99	.96	.99	.97	.94	.96	.94	.92	.94	.92	.90	.89
3.0	.98	.93	.90	.97	.92	.89	.94	.91	.88	.92	.89	.86	.89	.87	.85	.83
4.0	.92	.87	.83	.91	.87	.83	.89	.85	.82	.87	.84	.81	.85	.83	.80	.79
5.0	.87	.82	.78	.86	.81	.78	.85	.80	.77	.83	.79	.76	.82	.78	.76	.74
6.0	.83	.77	.73	.82	.77	.73	.80	.76	.73	.79	.75	.72	.78	.74	.72	.70
7.0	.78	.73	.69	.78	.73	.69	.77	.72	.69	.75	.71	.68	.74	.71	.68	.67
8.0	.75	.69	.65	.74	.69	.65	.73	.68	.65	.72	.68	.65	.71	.67	.65	.63
9.0	.71	.66	.62	.71	.66	.62	.70	.65	.62	.69	.65	.62	.68	.64	.61	.60
10.0	.68	.63	.59	.67	.62	.59	.67	.62	.59	.66	.62	.59	.65	.61	.59	.57



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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	.168	.095	.030	.161	.092	.029	.148	.085	.027	.137	.079	.025	.126	.073	.024	
2.0	.159	.087	.027	.153	.085	.026	.143	.079	.025	.133	.075	.023	.124	.070	.022	
3.0	.151	.080	.024	.146	.078	.024	.137	.074	.023	.129	.071	.022	.121	.067	.021	
4.0	.143	.074	.022	.139	.073	.021	.131	.069	.021	.124	.067	.020	.117	.064	.019	
5.0	.136	.069	.020	.132	.068	.020	.126	.065	.019	.119	.063	.019	.114	.061	.018	
6.0	.129	.065	.019	.126	.064	.018	.120	.062	.018	.115	.060	.018	.110	.058	.017	
7.0	.123	.061	.017	.121	.060	.017	.116	.058	.017	.111	.057	.017	.106	.055	.016	
8.0	.118	.058	.016	.116	.057	.016	.111	.055	.016	.107	.054	.016	.103	.053	.015	
9.0	.113	.055	.015	.111	.054	.015	.107	.053	.015	.103	.052	.015	.099	.050	.015	
10.0	.109	.052	.014	.107	.051	.014	.103	.050	.014	.100	.049	.014	.096	.048	.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	.170	.157	.146	.146	.135	.125	.100	.093	.087	.057	.054	.050	.018	.017	.016	
2.0	.155	.133	.114	.132	.114	.099	.091	.079	.069	.052	.046	.040	.017	.015	.013	
3.0	.141	.113	.091	.121	.098	.079	.083	.068	.055	.048	.040	.033	.015	.013	.011	
4.0	.131	.099	.074	.112	.085	.064	.077	.059	.045	.045	.035	.027	.014	.011	.009	
5.0	.121	.087	.061	.104	.075	.053	.072	.052	.038	.042	.031	.022	.013	.010	.007	
6.0	.114	.077	.051	.098	.067	.045	.067	.047	.032	.039	.028	.019	.013	.009	.006	
7.0	.107	.070	.044	.092	.060	.038	.064	.042	.027	.037	.025	.016	.012	.008	.005	
8.0	.101	.063	.037	.087	.055	.033	.060	.039	.023	.035	.023	.014	.011	.007	.005	
9.0	.096	.058	.032	.083	.050	.028	.057	.035	.020	.033	.021	.012	.011	.007	.004	
10.0	.091	.054	.028	.079	.046	.025	.055	.033	.018	.032	.019	.011	.010	.006	.003	

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 Test Distance:5.850m [K=1.0000]
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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	11.3	12.2	11.5	12.3	12.5	11.4	12.3	11.6	12.4	12.6
3H	11.4	12.2	11.7	12.4	12.6	11.5	12.3	11.7	12.4	12.6
4H	11.4	12.2	11.7	12.4	12.6	11.4	12.2	11.7	12.4	12.6
6H	11.4	12.1	11.7	12.3	12.6	11.4	12.1	11.7	12.3	12.6
8H	11.4	12.0	11.7	12.3	12.6	11.4	12.0	11.7	12.3	12.6
12H	11.3	12.0	11.6	12.3	12.5	11.3	12.0	11.6	12.2	12.5
4H 2H	11.2	12.0	11.5	12.2	12.4	11.3	12.1	11.6	12.3	12.5
3H	11.4	12.1	11.7	12.3	12.6	11.4	12.1	11.8	12.4	12.6
4H	11.4	12.0	11.8	12.3	12.6	11.4	12.0	11.8	12.3	12.6
6H	11.4	12.0	11.8	12.3	12.6	11.4	11.9	11.8	12.3	12.6
8H	11.4	11.9	11.8	12.3	12.6	11.4	11.9	11.8	12.2	12.6
12H	11.4	11.8	11.8	12.2	12.6	11.3	11.8	11.8	12.2	12.6
8H 4H	11.4	11.8	11.7	12.2	12.6	11.4	11.8	11.8	12.2	12.6
6H	11.4	11.8	11.8	12.2	12.6	11.3	11.7	11.8	12.1	12.6
8H	11.4	11.7	11.8	12.1	12.6	11.3	11.7	11.8	12.1	12.5
12H	11.3	11.6	11.8	12.1	12.6	11.3	11.6	11.8	12.0	12.5
12H 4H	11.3	11.8	11.7	12.1	12.5	11.3	11.8	11.7	12.1	12.5
6H	11.3	11.7	11.8	12.1	12.5	11.3	11.7	11.8	12.1	12.5
8H	11.3	11.6	11.8	12.1	12.5	11.3	11.6	11.8	12.0	12.5
Variations with the observer position at spacings:										
S = 1.0H	+ 1.5 / - 2.4					+ 1.6 / - 2.7				
1.5H	+ 2.0 / - 2.2					+ 2.2 / - 2.3				
2.0H	+ 3.1 / - 2.7					+ 3.3 / - 2.9				

CIE Pub.117, 1153 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 0.5)

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UTILIZATION FACTORS TABLE

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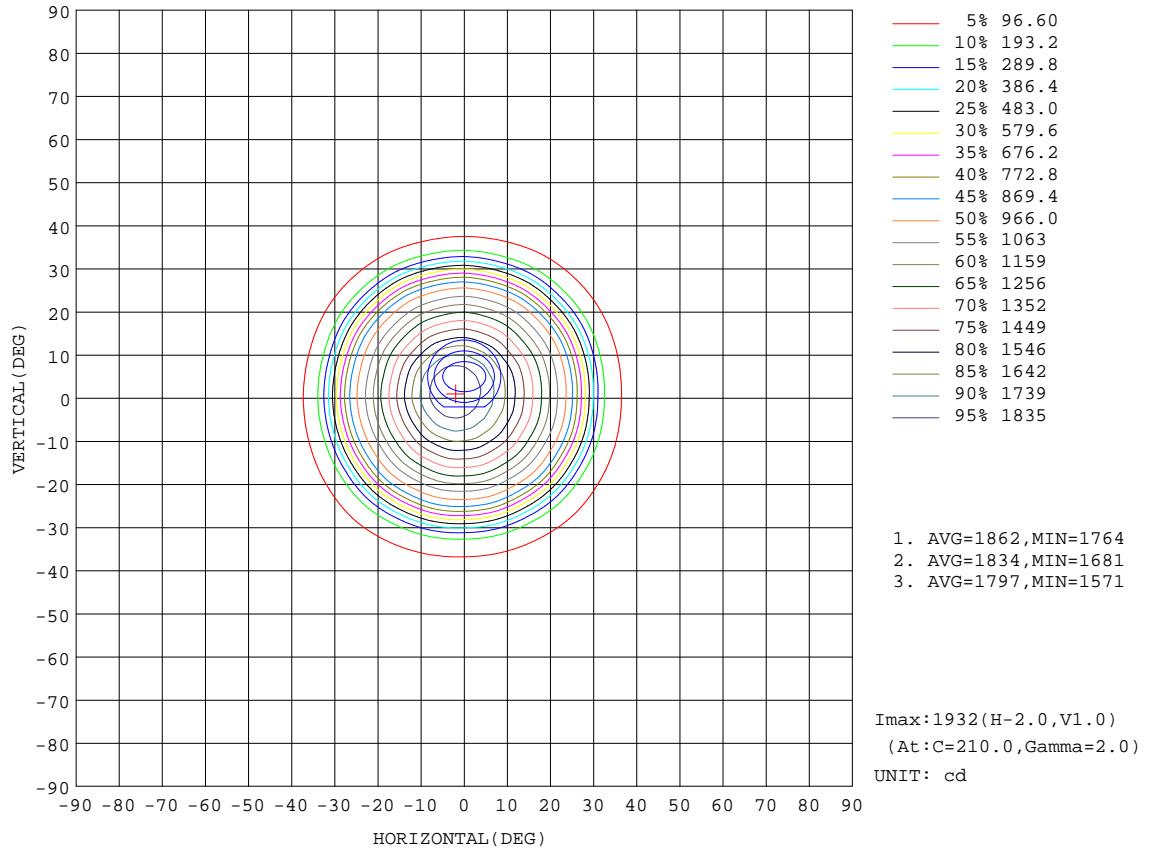
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	88	82	78	87	81	78	87	81	78	74
0.80	95	89	86	95	89	86	93	89	85	82
1.00	100	94	90	99	94	90	97	93	90	86
1.25	103	98	95	102	98	95	100	97	94	90
1.50	106	101	98	105	101	98	103	99	97	92
2.00	109	105	101	107	104	101	105	102	99	94
2.50	110	107	104	109	105	103	106	103	101	95
3.00	112	109	106	110	107	105	107	104	103	96
4.00	114	111	109	112	110	108	108	106	105	98
5.00	115	113	111	113	111	110	109	108	106	99
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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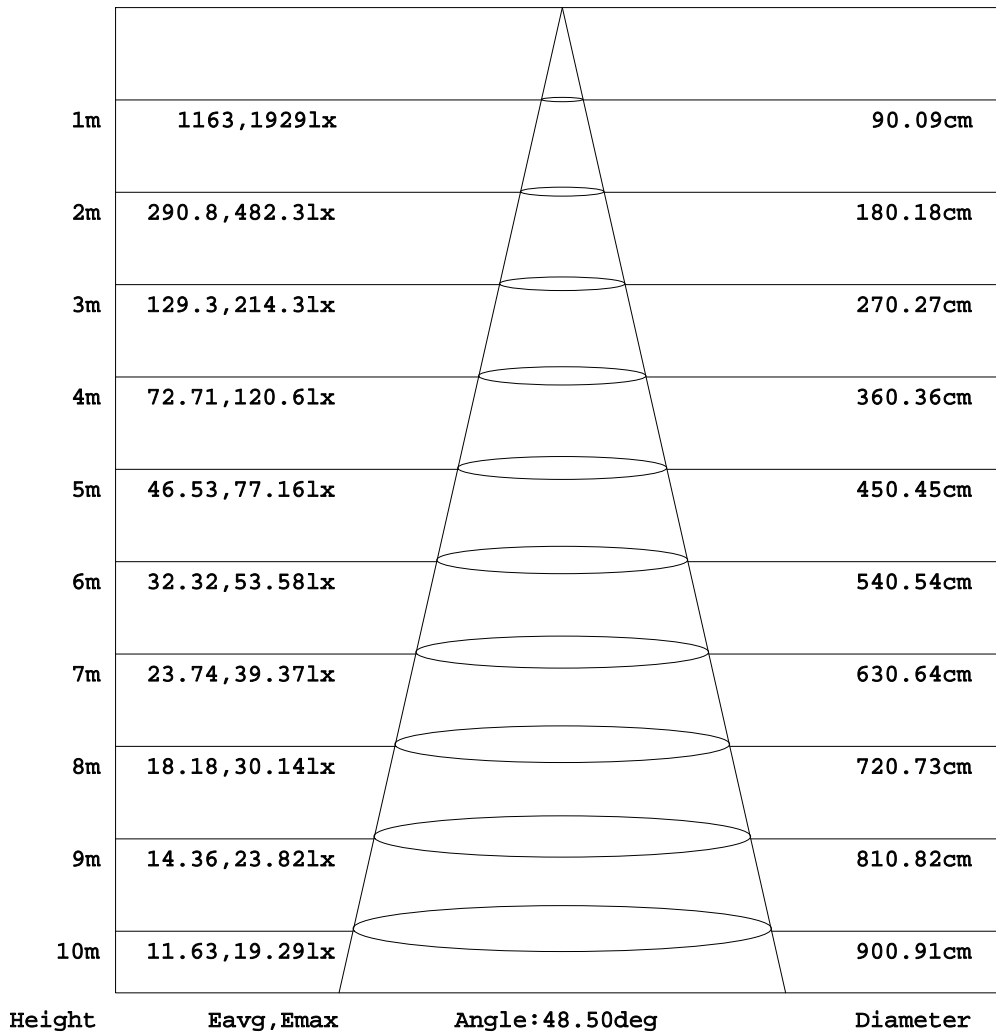
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AAI Figure

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Flux out:794.7 lm



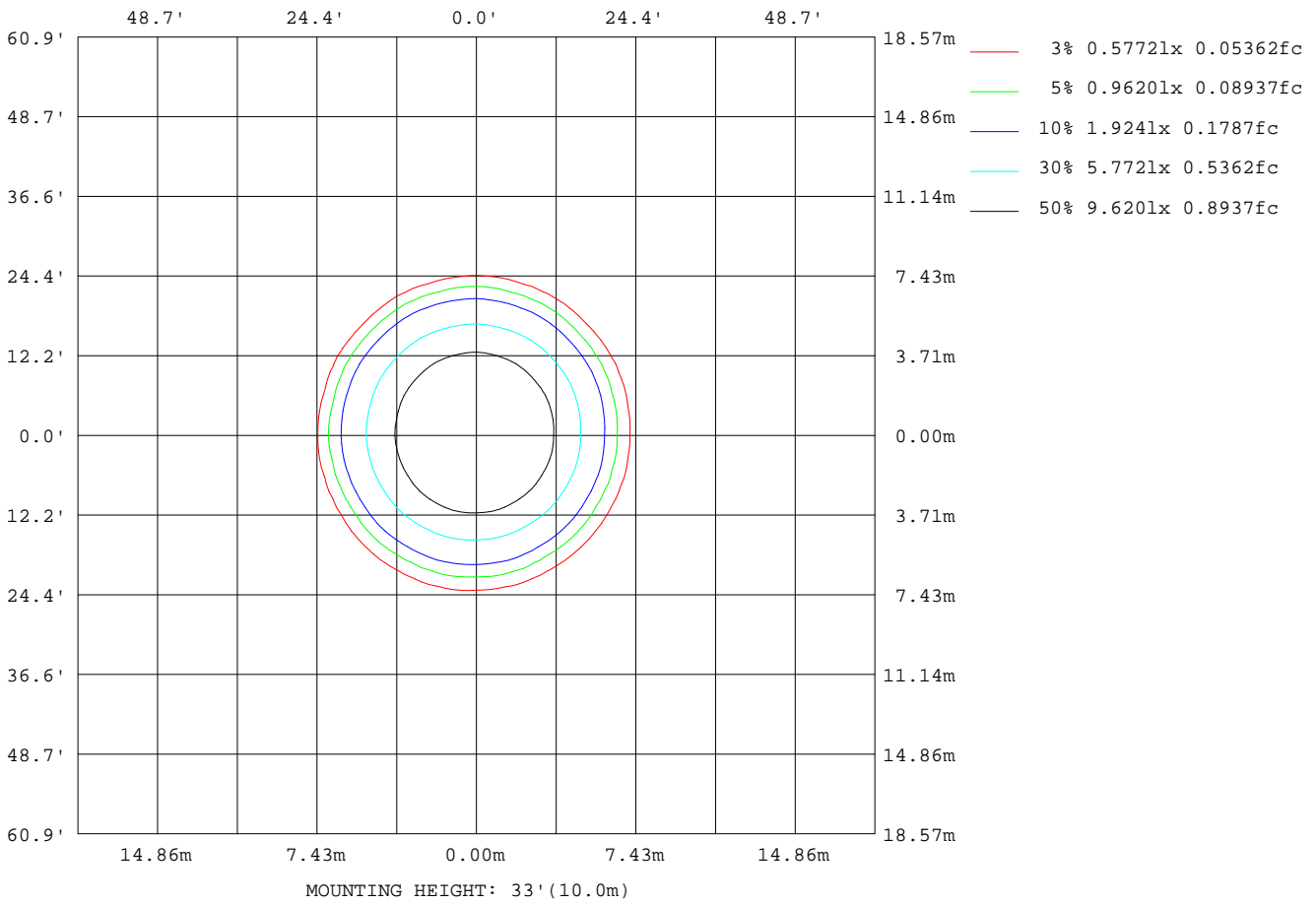
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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ISOLUX DIAGRAM

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LED Avg.L Report

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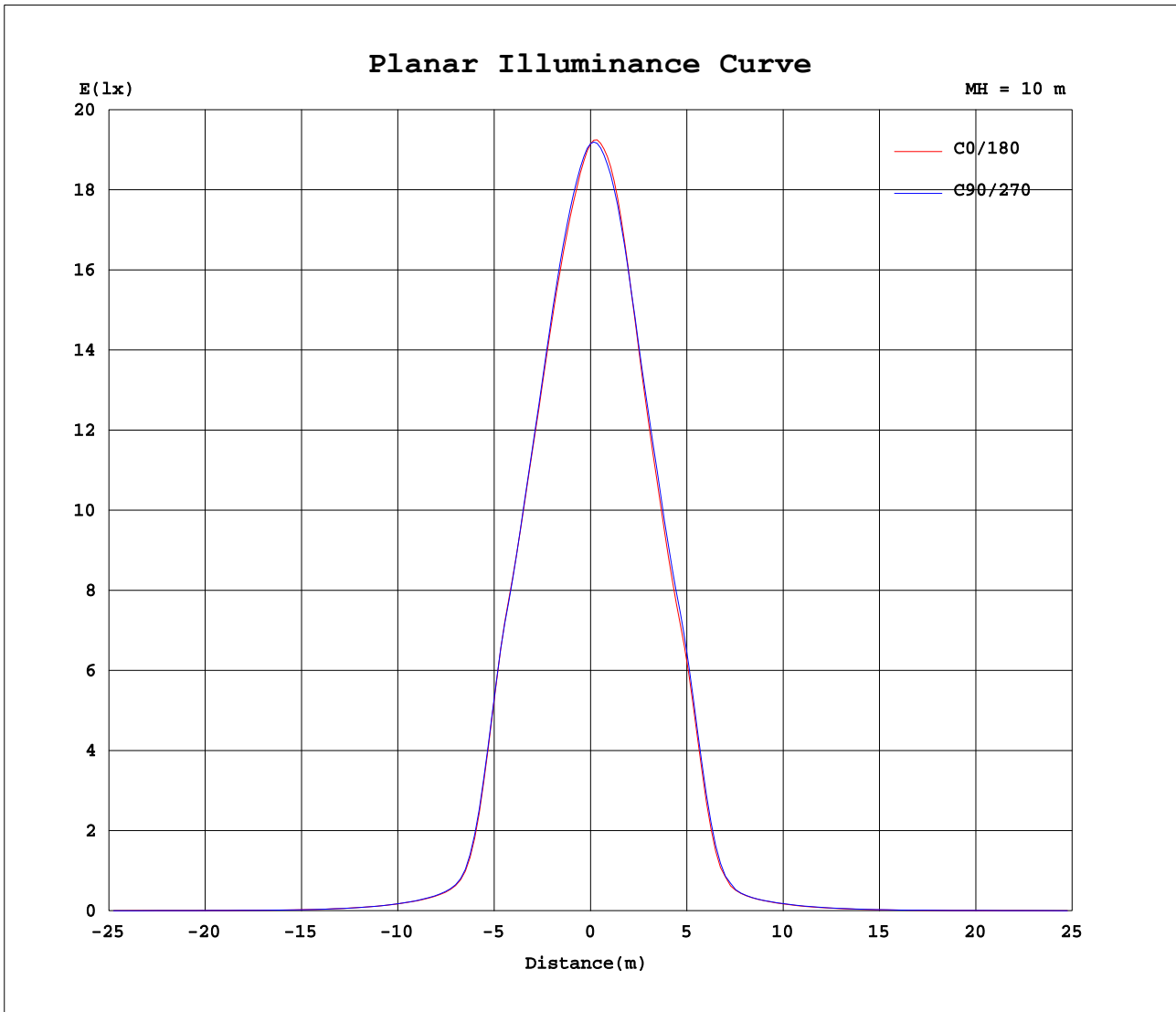
AvgL	cd/m2
L_0~180 (65) av	1851
L_0~180 (75) av	1083
L_0~180 (85) av	590
L_90~270 (65) av	1901
L_90~270 (75) av	1108
L_90~270 (85) av	609
L_45 (65) av	1922
L_45 (75) av	1128
L_45 (85) av	616

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:0.0660A P:14.58W PF:0.9601 Freq:49.89Hz Lamp Flux:1152.78x1 lm		
NAME: T100-13W-940-50	TYPE:Downlight	SERIAL No.:
SPEC.:4000K	DIM.: φ110mm*H79mm	
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	1916	1916	1916	1916	1916	1916	1916	1916	1916	1916	1916	1916	1916	1916	1916	1916	1916	1916	1916
5	1793	1789	1784	1788	1791	1802	1812	1828	1841	1860	1872	1890	1906	1911	1918	1914	1911	1897	1886
10	1619	1615	1608	1612	1615	1628	1636	1656	1666	1689	1699	1724	1751	1757	1775	1769	1772	1752	1741
15	1393	1390	1381	1388	1387	1401	1403	1420	1425	1444	1445	1462	1484	1486	1507	1504	1513	1500	1501
20	1145	1142	1132	1138	1134	1146	1148	1164	1169	1186	1188	1201	1220	1223	1245	1245	1259	1248	1253
25	877	871	857	862	856	874	878	899	906	926	929	943	959	963	981	984	1000	994	999
30	377	372	356	365	362	385	391	420	431	465	473	508	544	548	580	575	593	570	572
35	115	114	111	113	113	117	119	129	125	137	131	144	154	145	155	153	161	155	157
40	70.9	70.7	70.7	71.4	71.4	72.5	73.2	74.7	75.5	76.0	73.9	72.7	72.5	71.4	72.1	71.8	72.6	72.4	73.7
45	49.3	49.0	48.4	48.9	48.8	49.8	50.1	51.3	51.5	51.8	50.1	49.1	48.7	47.7	48.1	47.9	49.0	49.2	50.9
50	32.4	31.9	31.2	31.5	31.3	32.0	32.3	33.2	33.3	33.5	32.2	31.6	31.2	30.5	30.9	30.8	31.8	32.2	33.6
55	19.3	18.7	18.1	18.2	18.1	18.7	18.8	19.5	19.6	19.8	18.9	18.4	18.3	17.7	18.0	18.0	18.8	19.1	20.4
60	11.7	11.3	10.9	10.8	10.7	10.9	11.0	11.5	11.7	11.8	11.3	10.9	10.6	10.3	10.3	10.3	10.8	11.2	12.0
65	7.87	7.56	7.26	7.17	7.06	7.12	7.18	7.49	7.64	7.72	7.40	7.15	6.99	6.80	6.83	6.89	7.21	7.50	8.08
70	5.02	4.84	4.63	4.56	4.43	4.43	4.43	4.60	4.69	4.73	4.56	4.42	4.35	4.23	4.31	4.36	4.60	4.80	5.16
75	2.92	2.82	2.67	2.61	2.49	2.49	2.45	2.54	2.55	2.60	2.48	2.43	2.40	2.35	2.42	2.48	2.65	2.77	3.00
80	1.49	1.42	1.33	1.28	1.22	1.19	1.17	1.20	1.20	1.21	1.18	1.14	1.13	1.12	1.15	1.21	1.30	1.39	1.51
85	0.58	0.53	0.51	0.48	0.46	0.43	0.44	0.43	0.44	0.43	0.43	0.41	0.40	0.41	0.41	0.46	0.48	0.53	0.57
90	0.07	0.06	0.07	0.06	0.07	0.07	0.07	0.06	0.07	0.07	0.07	0.06	0.04	0.04	0.04	0.05	0.05	0.05	0.05

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:0.0660A P:14.58W PF:0.9601 Freq:49.89Hz Lamp Flux:1152.78x1 lm		
NAME: T100-13W-940-50	TYPE:Downlight	SERIAL No.:
SPEC.:4000K	DIM.: φ110mm*H79mm	
MFR.: NEKO LIGHTING AG		

Table--2

UNIT: cd

C (DEG) γ (DEG)	285	300	315	330	345											
0	1916	1916	1916	1916	1916											
5	1866	1850	1831	1819	1804											
10	1713	1695	1668	1655	1634											
15	1480	1471	1443	1433	1409											
20	1233	1225	1198	1186	1164											
25	983	976	949	935	905											
30	536	522	475	456	413											
35	146	150	131	133	121											
40	74.4	75.5	74.8	74.0	72.6											
45	51.8	53.1	52.6	52.3	50.8											
50	34.5	35.7	35.4	35.0	33.8											
55	21.1	22.0	21.7	21.5	20.4											
60	12.7	13.5	13.4	13.1	12.4											
65	8.58	9.13	9.09	8.89	8.40											
70	5.50	5.85	5.83	5.70	5.39											
75	3.19	3.44	3.41	3.35	3.14											
80	1.62	1.75	1.75	1.72	1.62											
85	0.63	0.66	0.68	0.66	0.64											
90	0.05	0.05	0.05	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: