

LED Downlight DOME Series T100-9W-930-50



Light Output Ratio:	100.0%	
Luminaire Power:	12 W	
SHR Nominal:	0.75	Calculated using the TM5
SHR Maximum:	0.75	fine grid method.

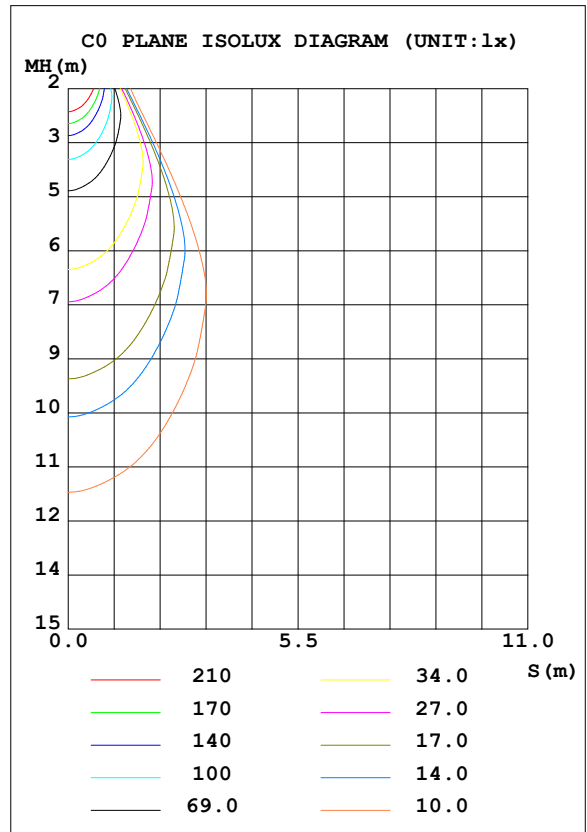
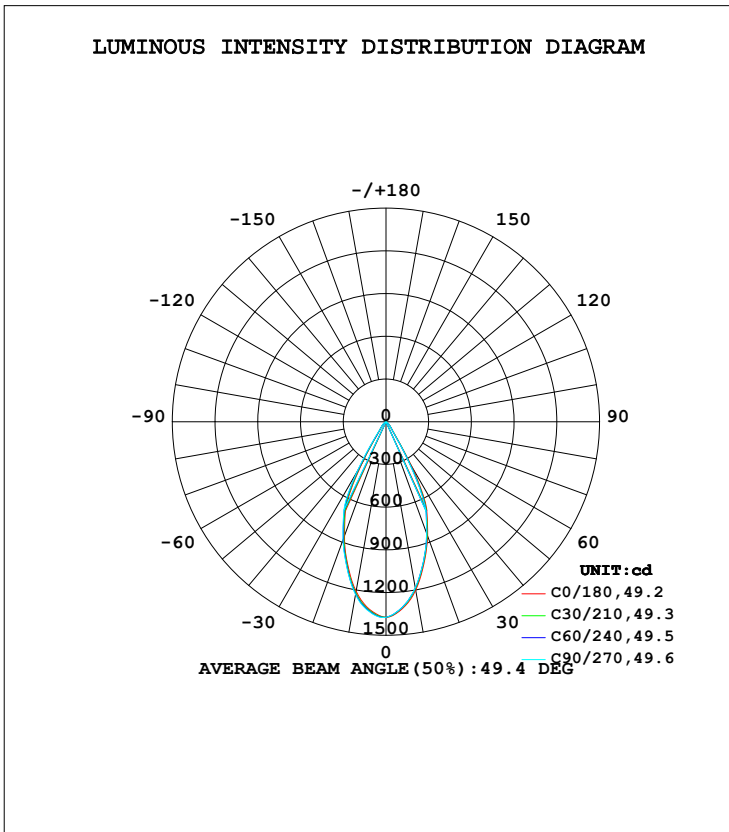
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Men Yongjian
Test Date: 2019-07-03

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:220.8V I:0.0543A P:12.00W PF:0.9606 Freq:49.90Hz Lamp Flux:837.886x1 lm		
NAME: T100-9W-930-50	TYPE:Downlight	SERIAL No.:
SPEC.:3000K	DIM.: φ110mm*H79mm	
MFR.: NEKO LIGHTING AG		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 69.85 lm/W			
MODEL	CITIZEN-3000K	I _{max} (cd)	1375	S/MH (C0/180)	0.75
NOMINAL POWER (W)	11	LOR (%)	100.0	S/MH (C90/270)	0.77
RATED VOLTAGE (V)	220	TOTAL FLUX (lm)	837.89	η UP, DN (C0-180)	0.0, 48.4
NOMINAL FLUX (lm)	837.886	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 51.6
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	0.75
TEST VOLTAGE (V)	220	η down (%)	100.0	CIBSE SHR MAX	0.75



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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	1201	1191	1184	1193	1210	1221	1233	1222	0- 10	122.6	122.6	14.6,14.6
20	856.4	843.1	835.2	842.1	853.5	868.0	884.8	879.5	10- 20	288.6	411.2	49.1,49.1
30	353.9	323.3	298.0	307.2	337.9	374.0	414.1	400.6	20- 30	292.1	703.3	83.9,83.9
40	56.45	53.58	53.29	54.72	53.60	54.86	58.69	60.72	30- 40	83.58	786.9	93.9,93.9
50	24.92	23.10	22.91	24.02	22.94	23.70	26.32	27.87	40- 50	29.62	816.5	97.4,97.4
60	8.535	7.574	7.781	8.389	7.518	7.788	9.198	10.16	50- 60	13.29	829.8	99,99
70	3.458	3.027	3.043	3.339	3.023	3.218	3.881	4.256	60- 70	5.554	835.4	99.7,99.7
80	0.9719	0.7951	0.7777	0.8333	0.7716	0.8893	1.137	1.253	70- 80	2.107	837.5	99.9,99.9
90	0.0504	0.0459	0.0481	0.0481	0.0263	0.0350	0.0415	0.0481	80- 90	0.4267	837.9	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): 804.01 lm

%lum = 96.0%
%lamp = 96.0%

Conical surface Flux(120deg): 829.8 lm

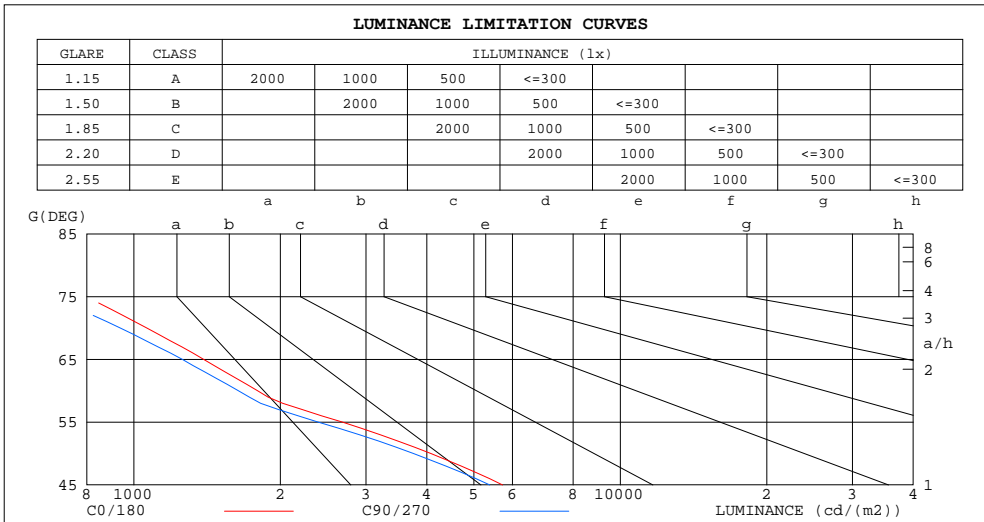
%lum = 99.0%
%lamp = 99.0%

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LUMINANCE LIMITATION CURVES

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LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	453	347
80	588	472
75	796	675
70	1063	937
65	1390	1257
60	1794	1639
55	2681	2389
50	4075	3753
45	5727	5390

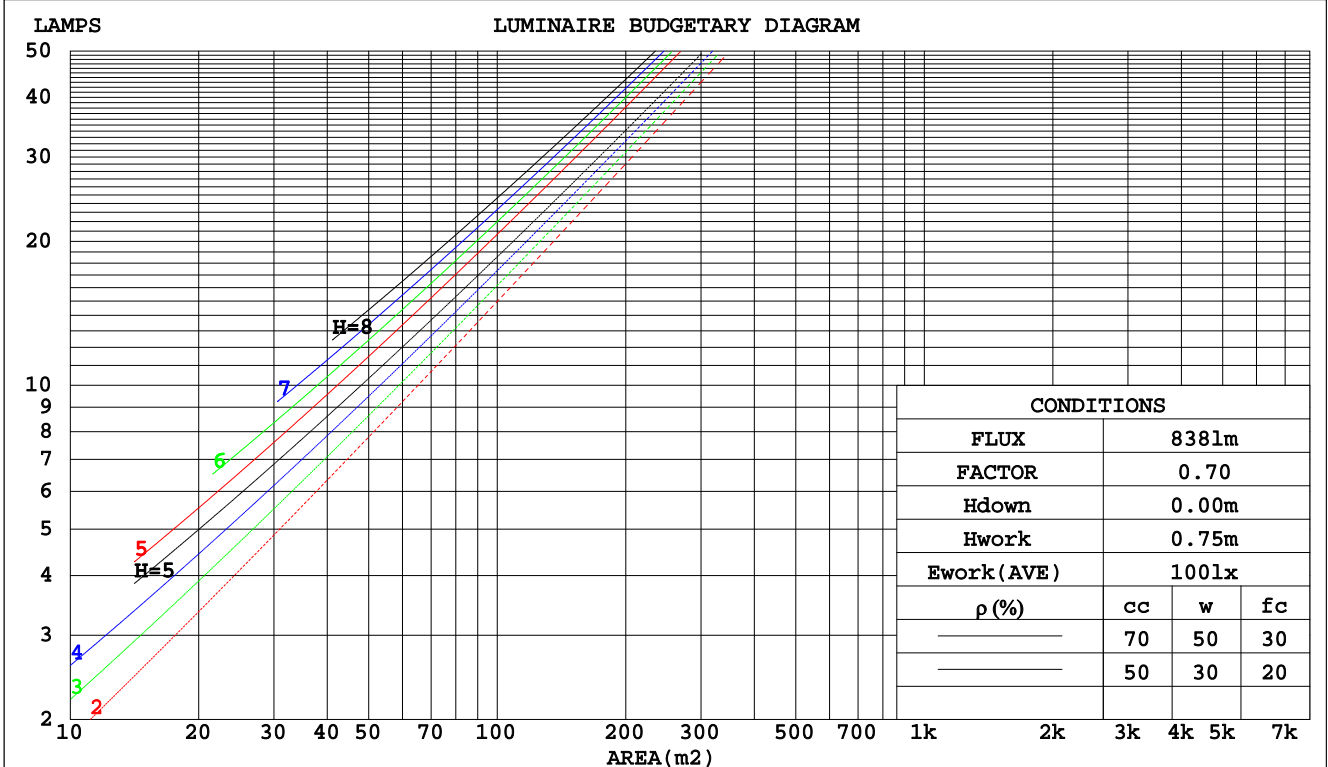
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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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pcc	80%			70%			50%			30%			10%			0
	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρw																
ρfc																
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	1.09	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	1.00	.97	1.02	.99	.96	.99	.96	.94	.96	.94	.92	.94	.92	.90	.89
3.0	.98	.93	.90	.97	.92	.89	.94	.90	.87	.92	.89	.86	.89	.87	.85	.83
4.0	.92	.87	.83	.91	.86	.83	.89	.85	.82	.87	.84	.81	.85	.82	.80	.78
5.0	.87	.82	.78	.86	.81	.77	.84	.80	.77	.83	.79	.76	.81	.78	.75	.74
6.0	.82	.77	.73	.82	.77	.73	.80	.76	.72	.79	.75	.72	.78	.74	.71	.70
7.0	.78	.73	.69	.78	.72	.69	.76	.72	.68	.75	.71	.68	.74	.70	.68	.66
8.0	.74	.69	.65	.74	.69	.65	.73	.68	.65	.72	.68	.65	.71	.67	.64	.63
9.0	.71	.65	.62	.70	.65	.62	.69	.65	.62	.69	.64	.61	.68	.64	.61	.60
10.0	.68	.62	.59	.67	.62	.59	.66	.62	.59	.66	.61	.58	.65	.61	.58	.57



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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	.168	.096	.030	.162	.092	.029	.149	.086	.027	.138	.079	.025	.127	.074	.024	
2.0	.160	.088	.027	.154	.085	.026	.144	.080	.025	.134	.075	.024	.125	.071	.022	
3.0	.151	.081	.024	.147	.078	.024	.138	.075	.023	.129	.071	.022	.122	.067	.021	
4.0	.143	.075	.022	.139	.073	.022	.132	.070	.021	.125	.067	.020	.118	.064	.020	
5.0	.136	.069	.020	.133	.068	.020	.126	.066	.019	.120	.063	.019	.114	.061	.018	
6.0	.130	.065	.019	.127	.064	.018	.121	.062	.018	.116	.060	.018	.111	.058	.017	
7.0	.124	.061	.017	.121	.060	.017	.116	.059	.017	.111	.057	.017	.107	.056	.016	
8.0	.119	.058	.016	.116	.057	.016	.112	.056	.016	.107	.054	.016	.103	.053	.015	
9.0	.114	.055	.015	.112	.054	.015	.107	.053	.015	.104	.052	.015	.100	.051	.015	
10.0	.109	.052	.015	.107	.052	.014	.104	.051	.014	.100	.050	.014	.097	.049	.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	.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	.142	.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	.122	.087	.061	.104	.075	.053	.072	.052	.038	.042	.031	.022	.013	.010	.007	
6.0	.114	.077	.051	.098	.067	.045	.068	.047	.032	.039	.028	.019	.013	.009	.006	
7.0	.107	.070	.043	.092	.060	.038	.064	.042	.027	.037	.025	.016	.012	.008	.005	
8.0	.101	.063	.037	.087	.055	.032	.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	.092	.054	.028	.079	.047	.025	.055	.033	.018	.032	.019	.010	.010	.006	.003	

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 Humidity:56%
 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	12.3	13.1	12.5	13.3	13.5	11.8	12.7	12.1	12.9	13.0
3H	12.3	13.1	12.5	13.3	13.5	11.8	12.6	12.1	12.8	13.0
4H	12.3	13.0	12.5	13.2	13.5	11.8	12.6	12.1	12.8	13.0
6H	12.2	12.9	12.5	13.2	13.4	11.8	12.5	12.1	12.7	13.0
8H	12.2	12.9	12.5	13.1	13.4	11.7	12.4	12.0	12.7	12.9
12H	12.1	12.8	12.5	13.1	13.3	11.7	12.3	12.0	12.6	12.9
4H 2H	12.1	12.9	12.4	13.1	13.3	11.7	12.5	12.0	12.7	12.9
3H	12.2	12.9	12.5	13.1	13.4	11.8	12.4	12.1	12.7	13.0
4H	12.2	12.8	12.5	13.1	13.4	11.8	12.4	12.1	12.7	13.0
6H	12.2	12.7	12.5	13.0	13.4	11.7	12.2	12.1	12.6	12.9
8H	12.1	12.6	12.5	13.0	13.3	11.7	12.2	12.1	12.5	12.9
12H	12.1	12.5	12.5	12.9	13.3	11.6	12.1	12.1	12.5	12.8
8H 4H	12.1	12.6	12.5	12.9	13.3	11.7	12.2	12.1	12.5	12.9
6H	12.1	12.5	12.5	12.9	13.3	11.6	12.0	12.1	12.4	12.8
8H	12.0	12.4	12.5	12.8	13.2	11.6	12.0	12.0	12.4	12.8
12H	12.0	12.3	12.5	12.7	13.2	11.6	11.9	12.0	12.3	12.8
12H 4H	12.0	12.5	12.5	12.9	13.3	11.6	12.1	12.0	12.4	12.8
6H	12.0	12.4	12.5	12.8	13.2	11.6	11.9	12.0	12.4	12.8
8H	12.0	12.3	12.5	12.7	13.2	11.6	11.9	12.0	12.3	12.8
Variations with the observer position at spacings:										
S = 1.0H	+ 1.8 / - 2.8					+ 1.8 / - 3.0				
1.5H	+ 2.5 / - 2.6					+ 2.3 / - 2.6				
2.0H	+ 3.5 / - 3.2					+ 3.5 / - 3.1				

CIE Pub.117, 837.9 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -0.6)

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UTILIZATION FACTORS TABLE

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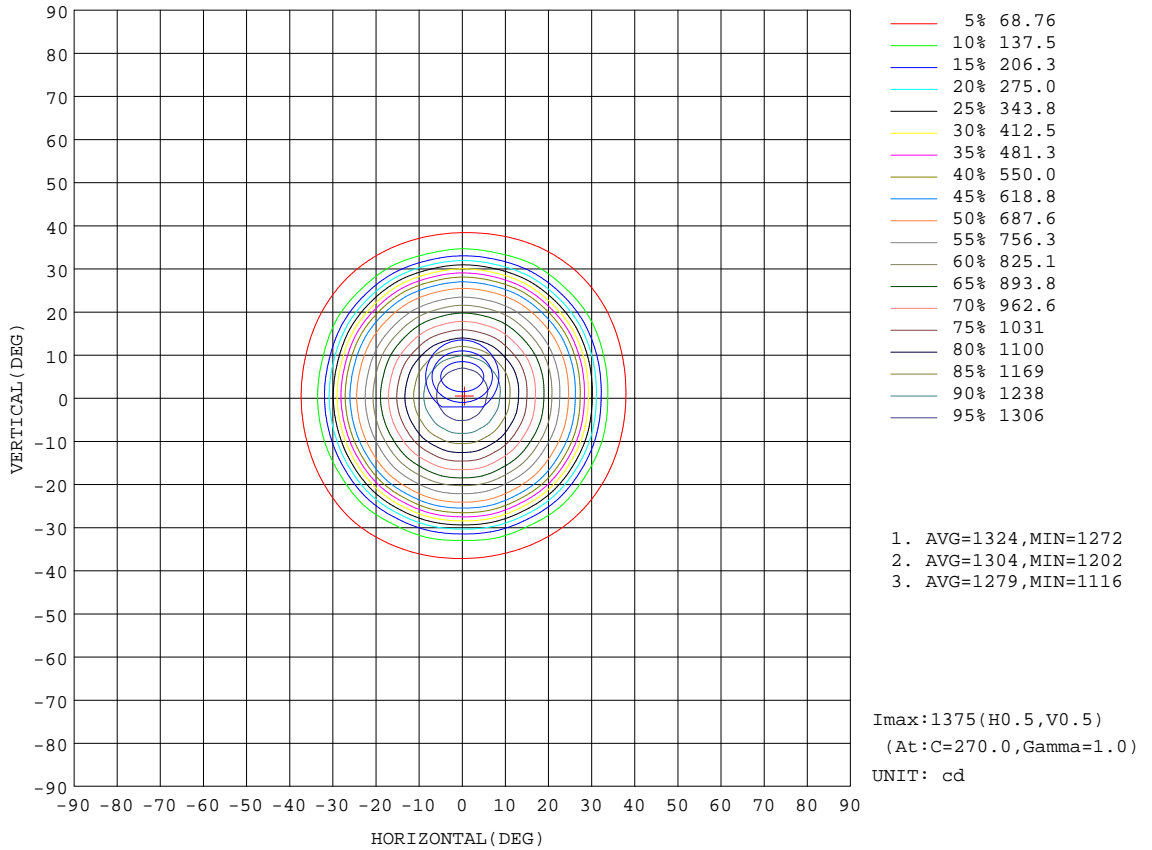
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	88	81	78	87	81	78	86	81	77	74
0.80	95	89	86	94	89	86	93	88	85	81
1.00	99	94	90	99	93	90	97	93	90	86
1.25	103	98	95	102	98	94	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	109	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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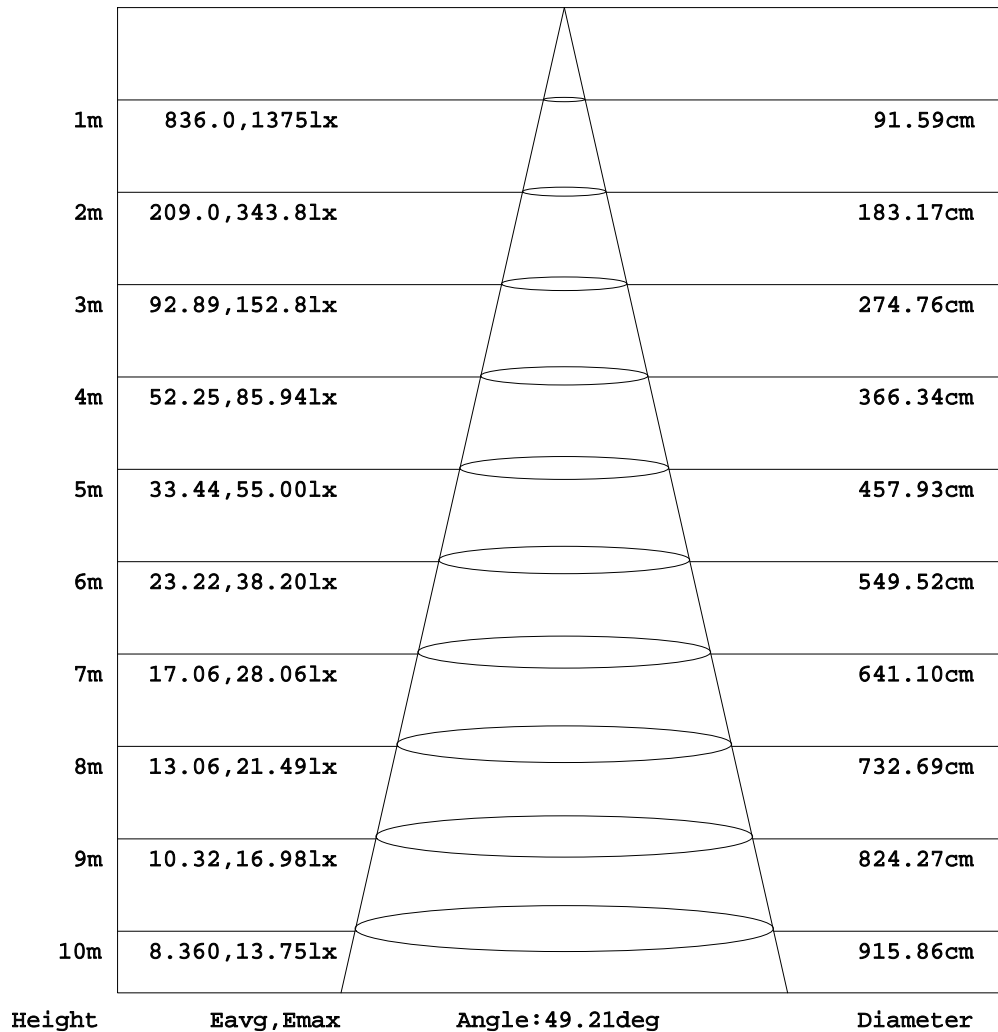
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AAI Figure

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Flux out:571.1 lm



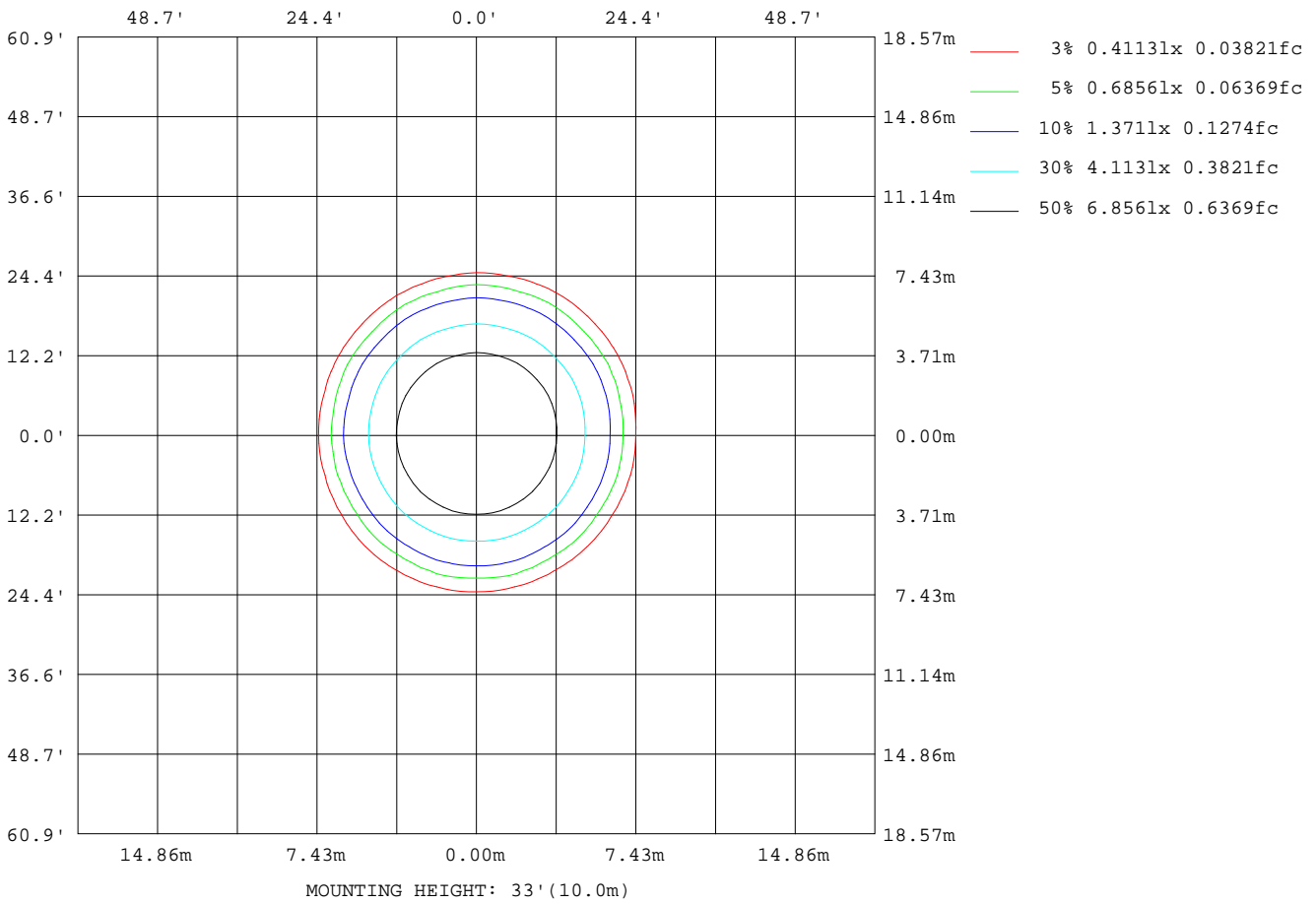
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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ISOLUX DIAGRAM

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LED Avg.L Report

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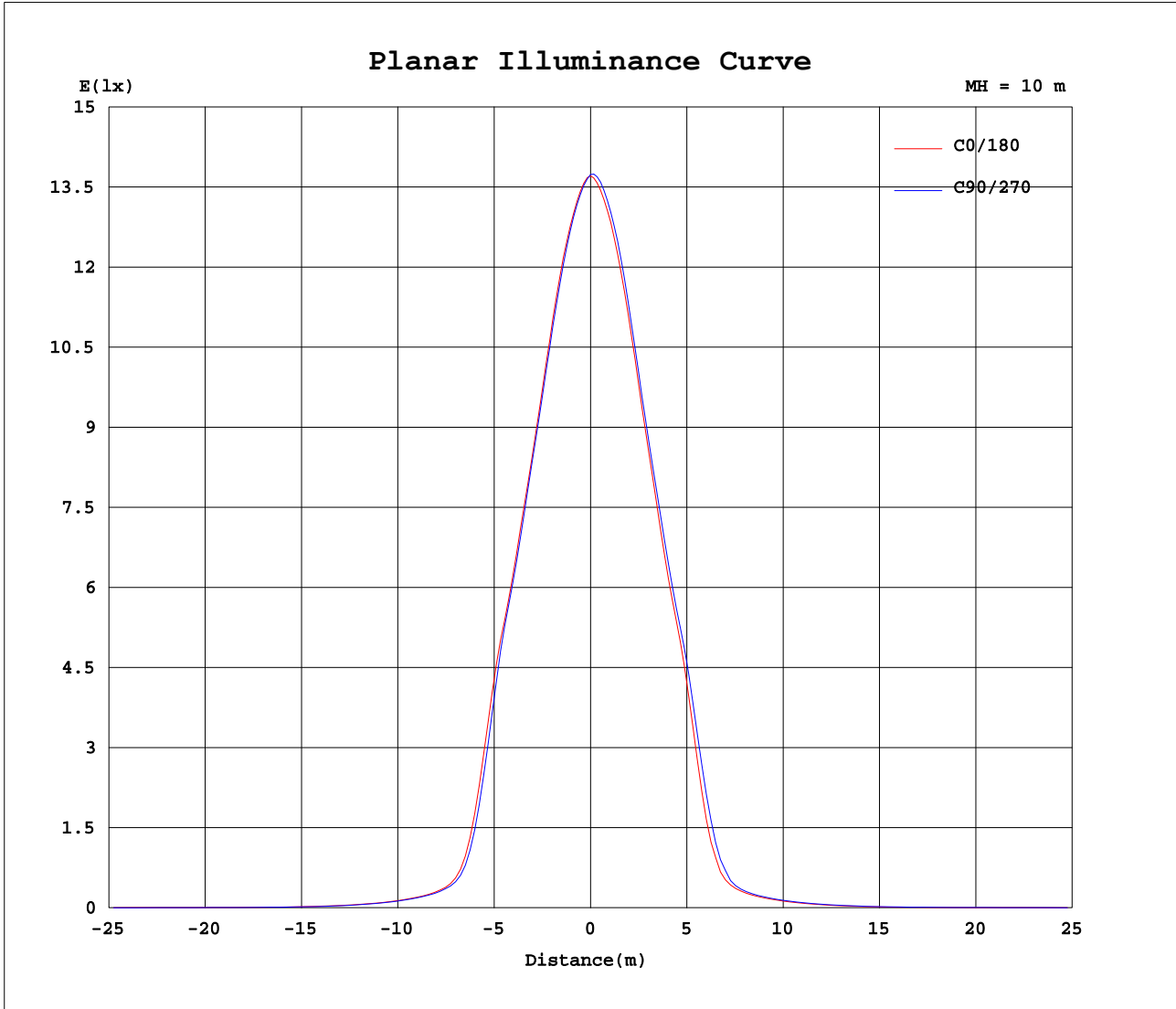
AvgL	cd/m2
L_0~180 (65) av	1308
L_0~180 (75) av	737
L_0~180 (85) av	388
L_90~270 (65) av	1388
L_90~270 (75) av	794
L_90~270 (85) av	434
L_45 (65) av	1388
L_45 (75) av	791
L_45 (85) av	424

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:220.8V I:0.0543A P:12.00W PF:0.9606 Freq:49.90Hz Lamp Flux:837.886x1 lm		
NAME: T100-9W-930-50	TYPE:Downlight	SERIAL No.:
SPEC.:3000K	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	1373	1373	1373	1373	1373	1373	1373	1373	1373	1373	1373	1373	1373	1373	1373	1373	1373	1373	1373
5	1318	1317	1311	1312	1309	1310	1309	1312	1312	1314	1315	1318	1323	1325	1330	1331	1336	1336	1340
10	1201	1199	1191	1191	1185	1187	1184	1189	1187	1193	1194	1201	1210	1211	1220	1221	1229	1228	1233
15	1032	1030	1021	1022	1016	1020	1016	1021	1020	1026	1025	1030	1040	1041	1050	1050	1058	1055	1061
20	856	854	845	843	837	839	835	839	837	842	839	843	853	855	866	868	878	877	885
25	676	673	663	662	653	655	647	652	648	656	653	660	670	671	683	686	697	697	704
30	354	349	327	323	307	309	298	304	297	307	302	317	338	341	367	374	397	397	414
35	102	99.7	94.1	92.6	89.2	90.2	88.8	90.5	90.1	91.6	89.8	91.4	95.8	96.9	103	105	112	114	127
40	56.4	55.6	54.0	53.6	52.7	53.3	53.3	54.3	54.5	54.7	53.5	53.1	53.6	53.3	54.4	54.9	56.5	56.9	58.7
45	38.5	37.9	36.7	36.5	35.7	36.1	36.2	37.2	37.4	37.7	36.6	36.2	36.3	36.0	36.8	37.2	38.4	38.8	40.2
50	24.9	24.3	23.4	23.1	22.6	22.9	22.9	23.7	23.8	24.0	23.2	22.9	22.9	22.8	23.4	23.7	24.7	25.1	26.3
55	14.6	14.1	13.4	13.2	12.7	13.0	13.0	13.7	13.8	13.9	13.3	13.0	13.1	12.9	13.3	13.6	14.5	14.8	15.7
60	8.54	8.15	7.72	7.57	7.45	7.61	7.78	8.19	8.38	8.39	7.97	7.65	7.52	7.42	7.61	7.79	8.21	8.54	9.20
65	5.59	5.30	5.03	4.92	4.84	4.94	5.04	5.30	5.46	5.47	5.21	5.00	4.91	4.86	5.02	5.15	5.43	5.68	6.10
70	3.46	3.30	3.08	3.03	2.95	3.01	3.04	3.23	3.29	3.34	3.16	3.06	3.02	2.99	3.13	3.22	3.43	3.59	3.88
75	1.96	1.85	1.72	1.68	1.63	1.65	1.66	1.75	1.78	1.81	1.72	1.67	1.66	1.66	1.75	1.83	1.96	2.07	2.24
80	0.97	0.89	0.84	0.80	0.78	0.76	0.78	0.80	0.83	0.83	0.81	0.78	0.77	0.78	0.83	0.89	0.96	1.05	1.14
85	0.38	0.32	0.31	0.28	0.29	0.27	0.29	0.27	0.30	0.29	0.30	0.27	0.27	0.29	0.29	0.34	0.36	0.41	0.43
90	0.05	0.04	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.03	0.03	0.02	0.03	0.03	0.05	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:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.8V I:0.0543A P:12.00W PF:0.9606 Freq:49.90Hz Lamp Flux:837.886x1 lm		
NAME: T100-9W-930-50	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	1373	1373	1373	1373	1373															
5	1338	1338	1333	1331	1325															
10	1228	1230	1222	1221	1211															
15	1058	1060	1052	1051	1042															
20	883	887	880	878	868															
25	703	707	700	697	687															
30	409	417	401	401	380															
35	120	130	118	117	110															
40	59.6	61.3	60.7	60.3	58.5															
45	41.1	42.4	42.1	41.7	40.1															
50	27.1	28.2	27.9	27.5	26.3															
55	16.3	17.2	17.0	16.6	15.7															
60	9.70	10.3	10.2	9.84	9.17															
65	6.46	6.82	6.76	6.51	6.06															
70	4.08	4.32	4.26	4.10	3.78															
75	2.37	2.51	2.46	2.36	2.16															
80	1.21	1.27	1.25	1.19	1.09															
85	0.48	0.49	0.50	0.46	0.43															
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: