

LED Downlight Kenzo Series K1X55-9W-830-36D



Light Output Ratio:	100.0%	
Luminaire Power:	10.62 W	
SHR Nominal:	0.50	Calculated using the TM5
SHR Maximum:	0.55	fine grid method.

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Meng Yongjian
Test Date: 2017-08-30

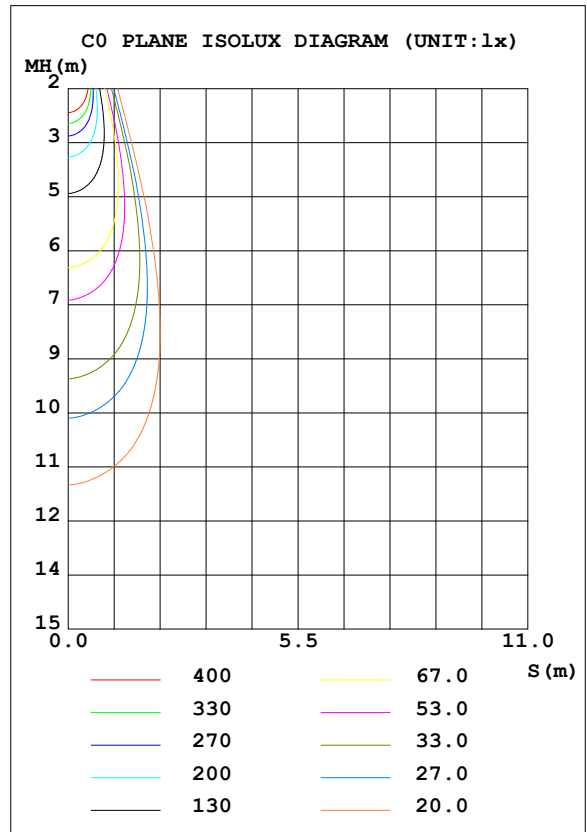
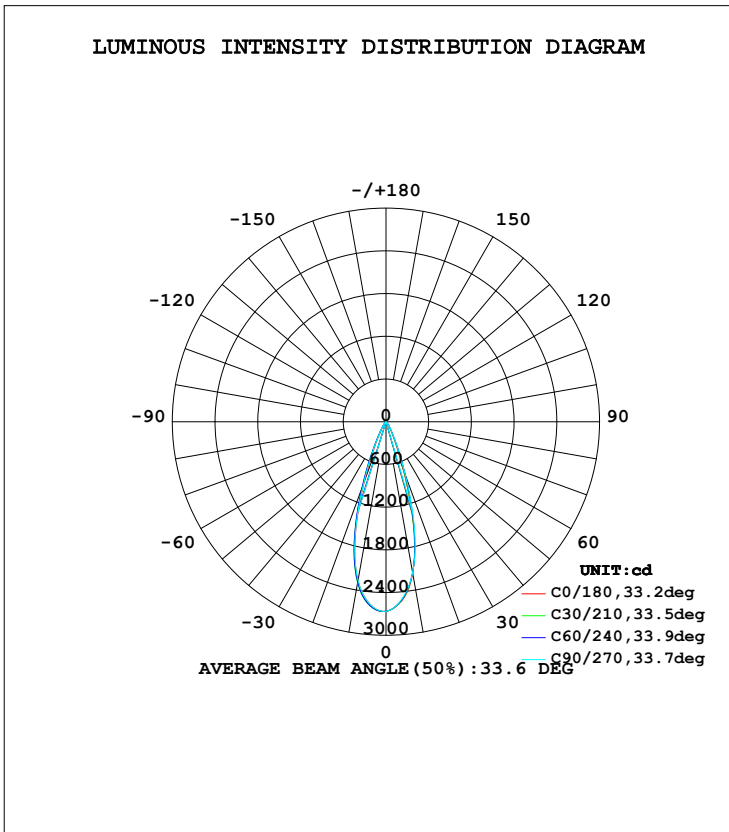
γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.288
Humidity: 52%
Test Distance: 5.850m [K=1.0000]
Remarks:

GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:220.8V I:0.0534A P:10.62W PF:0.9008 Lamp Flux:905.2x1 lm		
NAME: K1X55-9W-830-36D	TYPE:Downlight	SERIAL No.:
SPEC.:3000K	DIM.: φ88mm*H125mm	
MFR.: NEKO LIGHTING AG		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 85.25 lm/W			
MODEL	CITIZEN-3000K	I _{max} (cd)	2666	S/MH (C0/180)	0.53
NOMINAL POWER (W)	11.0	LOR (%)	100.0	S/MH (C90/270)	0.54
RATED VOLTAGE (V)	220	TOTAL FLUX (lm)	905.20	η UP, DN (C0-180)	0.0, 48.5
NOMINAL FLUX (lm)	905.2	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 51.5
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	0.50
TEST VOLTAGE (V)	220	η down (%)	100.0	CIBSE SHR MAX	0.55



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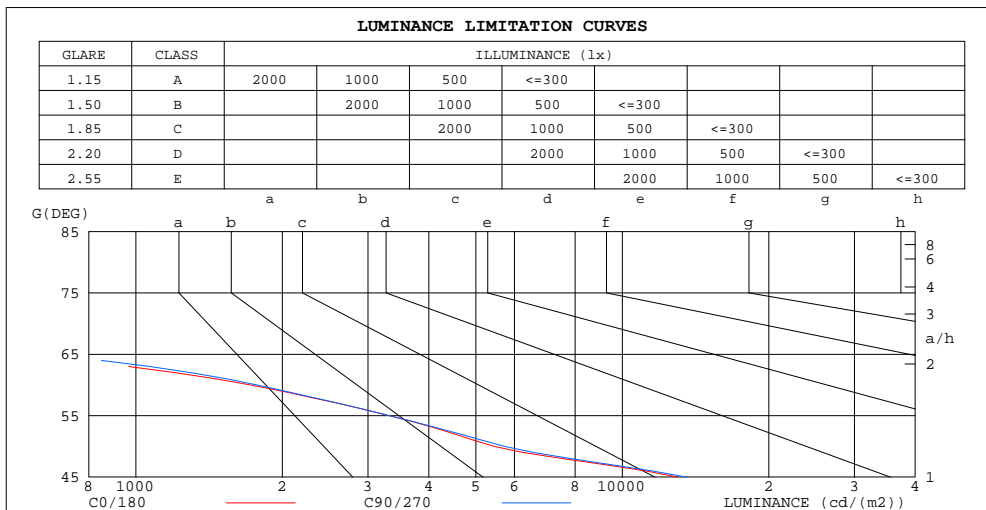
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**ZONAL FLUX DIAGRAM
AND LUMINANCE LIMITATION CURVES**

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	Φ lum, lamp
10	2165	2170	2155	2203	2266	2288	2263	2205	0- 10	232.8	232.8	25.7,25.7
20	700.0	789.9	798.2	810.9	891.6	972.0	926.1	770.2	10- 20	423.9	656.7	72.5,72.5
30	134.0	157.3	156.9	139.9	151.6	174.5	169.9	133.5	20- 30	172.0	828.7	91.5,91.5
40	39.56	43.37	42.40	42.01	44.44	47.31	45.61	41.08	30- 40	52.71	881.4	97.4,97.4
50	8.317	8.869	8.740	8.978	9.703	10.57	10.23	8.789	40- 50	18.32	899.7	99.4,99.4
60	2.042	2.133	2.105	2.067	2.365	2.474	2.593	2.117	50- 60	4.557	904.3	99.9,99.9
70	0.1182	0.1157	0.1291	0.0939	0.0939	0.1357	0.1157	0.1160	60- 70	0.8130	905.1	100,100
80	0.0591	0.0393	0.0591	0.0372	0.0328	0.0569	0.0394	0.0546	70- 80	0.0776	905.2	100,100
90	0.0328	0.0350	0.0350	0.0328	0.0241	0.0241	0.0241	0.0241	80- 90	0.0402	905.2	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		



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	211	222
80	143	143
75	128	139
70	146	159
65	547	628
60	1720	1773
55	3317	3317
50	5449	5726
45	13016	13564

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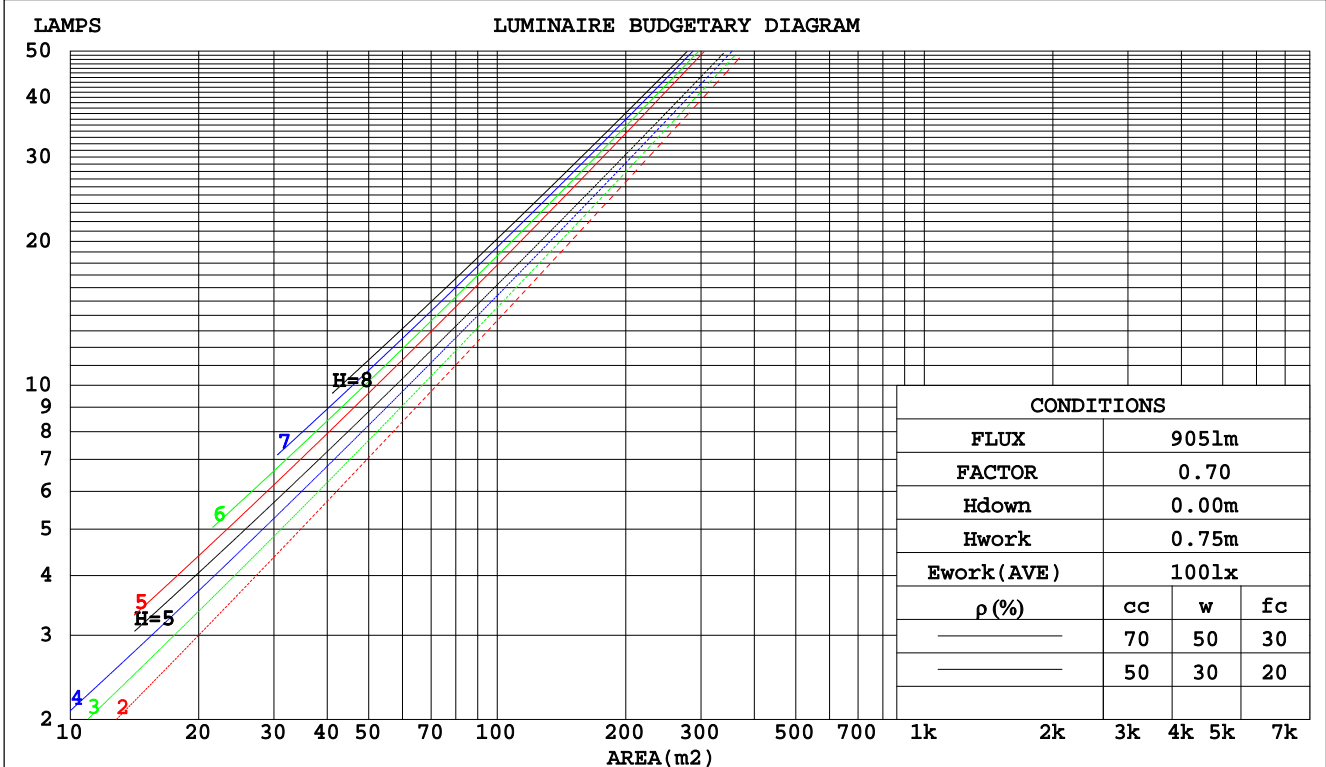
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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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SPEC.:3000K	DIM.: φ88mm*H125mm	
MFR.: NEKO LIGHTING AG		

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	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	1.09	1.10	1.08	1.07	1.06	1.05	1.04	1.03	1.02	1.00	.99	.98	.98	.96
2.0	1.07	1.03	1.01	1.05	1.02	.00	1.02	.99	.97	.99	.97	.95	.96	.95	.93	.92
3.0	1.01	.98	.94	1.00	.97	.94	.98	.95	.92	.95	.93	.91	.93	.91	.89	.88
4.0	.97	.93	.89	.96	.92	.89	.94	.90	.88	.92	.89	.87	.90	.88	.86	.85
5.0	.93	.88	.85	.92	.88	.85	.90	.87	.84	.89	.86	.83	.87	.85	.82	.81
6.0	.89	.84	.81	.88	.84	.81	.87	.83	.80	.86	.82	.80	.84	.82	.79	.78
7.0	.86	.81	.78	.85	.81	.78	.84	.80	.77	.83	.79	.77	.82	.79	.76	.75
8.0	.82	.78	.75	.82	.78	.75	.81	.77	.74	.80	.77	.74	.79	.76	.74	.73
9.0	.80	.75	.72	.79	.75	.72	.78	.74	.72	.78	.74	.71	.77	.74	.71	.70
10.0	.77	.72	.69	.76	.72	.69	.76	.72	.69	.75	.72	.69	.74	.71	.69	.68



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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	.146	.083	.026	.140	.080	.025	.127	.073	.023	.116	.067	.021	.105	.061	.020	
2.0	.137	.075	.023	.131	.072	.022	.121	.067	.021	.112	.063	.020	.103	.058	.018	
3.0	.128	.068	.020	.124	.066	.020	.115	.062	.019	.107	.059	.018	.100	.055	.017	
4.0	.121	.063	.018	.117	.061	.018	.110	.058	.017	.103	.055	.017	.097	.053	.016	
5.0	.115	.058	.017	.111	.057	.017	.105	.055	.016	.099	.052	.016	.094	.050	.015	
6.0	.109	.055	.016	.106	.054	.015	.101	.052	.015	.095	.050	.015	.091	.048	.014	
7.0	.104	.051	.015	.101	.050	.014	.096	.049	.014	.092	.047	.014	.088	.046	.013	
8.0	.099	.048	.014	.097	.048	.013	.093	.046	.013	.089	.045	.013	.085	.044	.013	
9.0	.095	.046	.013	.093	.045	.013	.089	.044	.013	.086	.043	.012	.082	.042	.012	
10.0	.091	.044	.012	.089	.043	.012	.086	.042	.012	.083	.041	.012	.080	.040	.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	.088	.057	.054	.051	.018	.017	.016	
2.0	.152	.133	.117	.130	.114	.101	.089	.079	.070	.051	.046	.041	.016	.015	.013	
3.0	.137	.113	.094	.118	.098	.082	.081	.068	.057	.047	.040	.034	.015	.013	.011	
4.0	.125	.098	.077	.107	.085	.067	.074	.059	.047	.043	.035	.028	.014	.011	.009	
5.0	.115	.086	.064	.099	.074	.056	.068	.052	.040	.039	.031	.023	.013	.010	.008	
6.0	.107	.076	.054	.092	.066	.047	.063	.046	.033	.037	.027	.020	.012	.009	.007	
7.0	.100	.068	.046	.086	.059	.040	.059	.041	.029	.034	.024	.017	.011	.008	.006	
8.0	.093	.062	.040	.080	.053	.035	.056	.037	.025	.032	.022	.015	.010	.007	.005	
9.0	.088	.056	.035	.076	.049	.030	.052	.034	.021	.031	.020	.013	.010	.007	.004	
10.0	.083	.051	.030	.072	.045	.026	.050	.031	.019	.029	.019	.011	.009	.006	.004	

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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	12.4	13.1	12.6	13.2	13.4	12.9	13.6	13.1	13.7	13.9
3H	12.2	12.9	12.5	13.1	13.3	12.7	13.4	13.0	13.6	13.8
4H	12.1	12.8	12.4	13.0	13.2	12.6	13.3	12.9	13.5	13.7
6H	12.1	12.7	12.3	12.9	13.1	12.6	13.2	12.8	13.4	13.6
8H	12.0	12.6	12.3	12.8	13.1	12.5	13.1	12.8	13.3	13.6
12H	12.0	12.5	12.3	12.8	13.0	12.5	13.0	12.8	13.3	13.5
4H 2H	12.2	12.8	12.4	13.0	13.2	12.7	13.3	12.9	13.5	13.7
3H	12.0	12.5	12.3	12.8	13.1	12.5	13.0	12.8	13.3	13.6
4H	11.9	12.4	12.2	12.7	13.0	12.4	12.9	12.7	13.2	13.5
6H	11.8	12.2	12.2	12.6	12.9	12.3	12.7	12.7	13.1	13.4
8H	11.7	12.2	12.1	12.5	12.9	12.2	12.7	12.6	13.0	13.4
12H	11.7	12.1	12.1	12.4	12.8	12.2	12.6	12.6	12.9	13.3
8H 4H	11.7	12.2	12.1	12.5	12.9	12.2	12.7	12.6	13.0	13.4
6H	11.6	12.0	12.1	12.4	12.8	12.1	12.5	12.5	12.9	13.3
8H	11.6	11.9	12.0	12.3	12.7	12.1	12.4	12.5	12.8	13.2
12H	11.5	11.8	12.0	12.2	12.7	12.0	12.3	12.5	12.7	13.2
12H 4H	11.7	12.1	12.1	12.4	12.8	12.2	12.6	12.6	12.9	13.3
6H	11.6	11.9	12.0	12.3	12.7	12.1	12.4	12.5	12.8	13.2
8H	11.5	11.8	12.0	12.2	12.7	12.0	12.3	12.5	12.7	13.2
Variations with the observer position at spacings:										
S = 1.0H	+ 2.7 / - 9.7					+ 2.9 / -10.0				
1.5H	+ 4.4 / - 6.9					+ 4.6 / - 7.2				
2.0H	+ 6.2 / -10.0					+ 6.3 / - 9.9				

CIE Pub.117 Corrected 905.2 lm Total Lamp Luminous Flux.(8log(F/F0) = -0.3)

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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	84	80	89	83	80	77
0.80	97	92	88	96	91	88	95	91	88	84
1.00	101	96	93	100	95	92	99	95	92	88
1.25	105	100	97	104	99	96	102	98	96	92
1.50	107	103	100	106	102	99	104	101	98	94
2.00	110	106	103	108	105	102	105	103	100	95
2.50	111	108	105	109	106	104	106	104	102	96
3.00	112	109	107	111	108	106	107	105	103	97
4.00	114	112	110	112	110	108	109	107	106	99
5.00	116	113	112	113	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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ISOCANDELA DIAGRAM

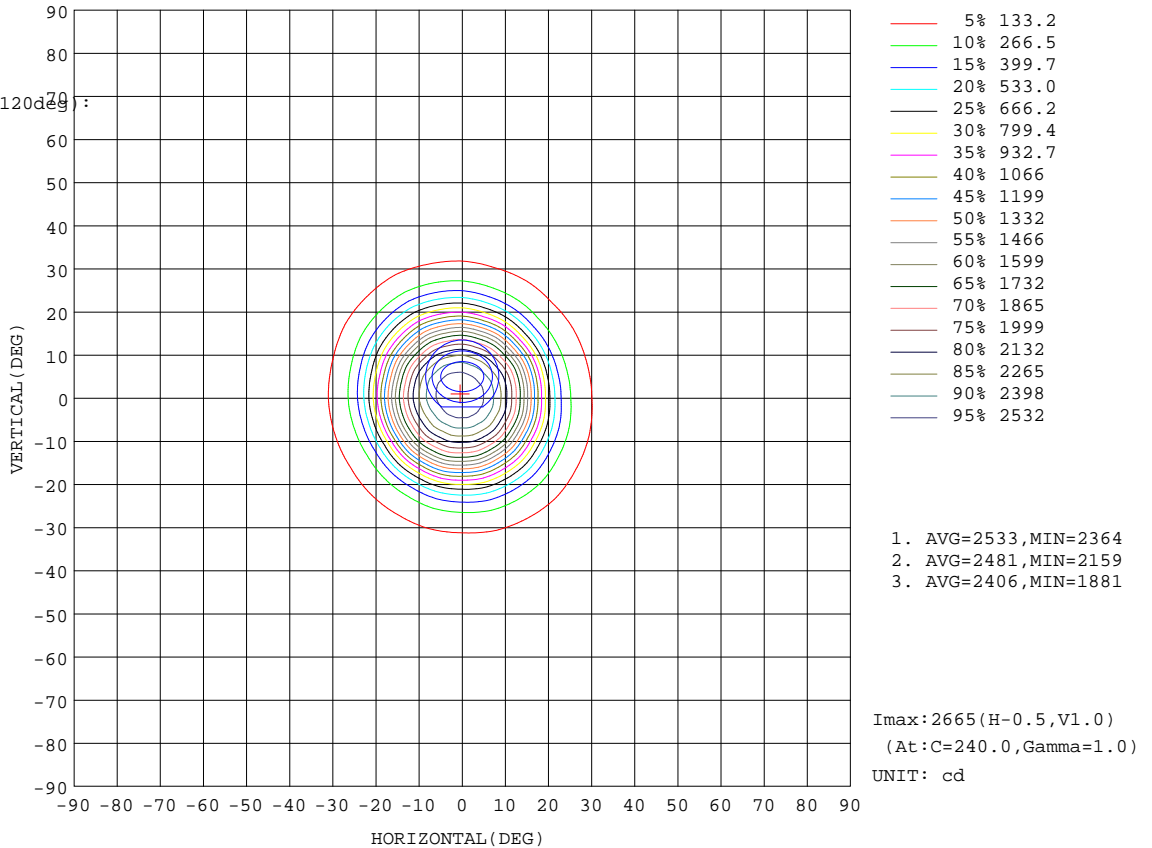
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Conical surface Flux(90deg):

893.41 lm
%lum = 98.7%
%lamp = 98.7%

Conical surface Flux(120deg):

904.27 lm
%lum = 99.9%
%lamp = 99.9%



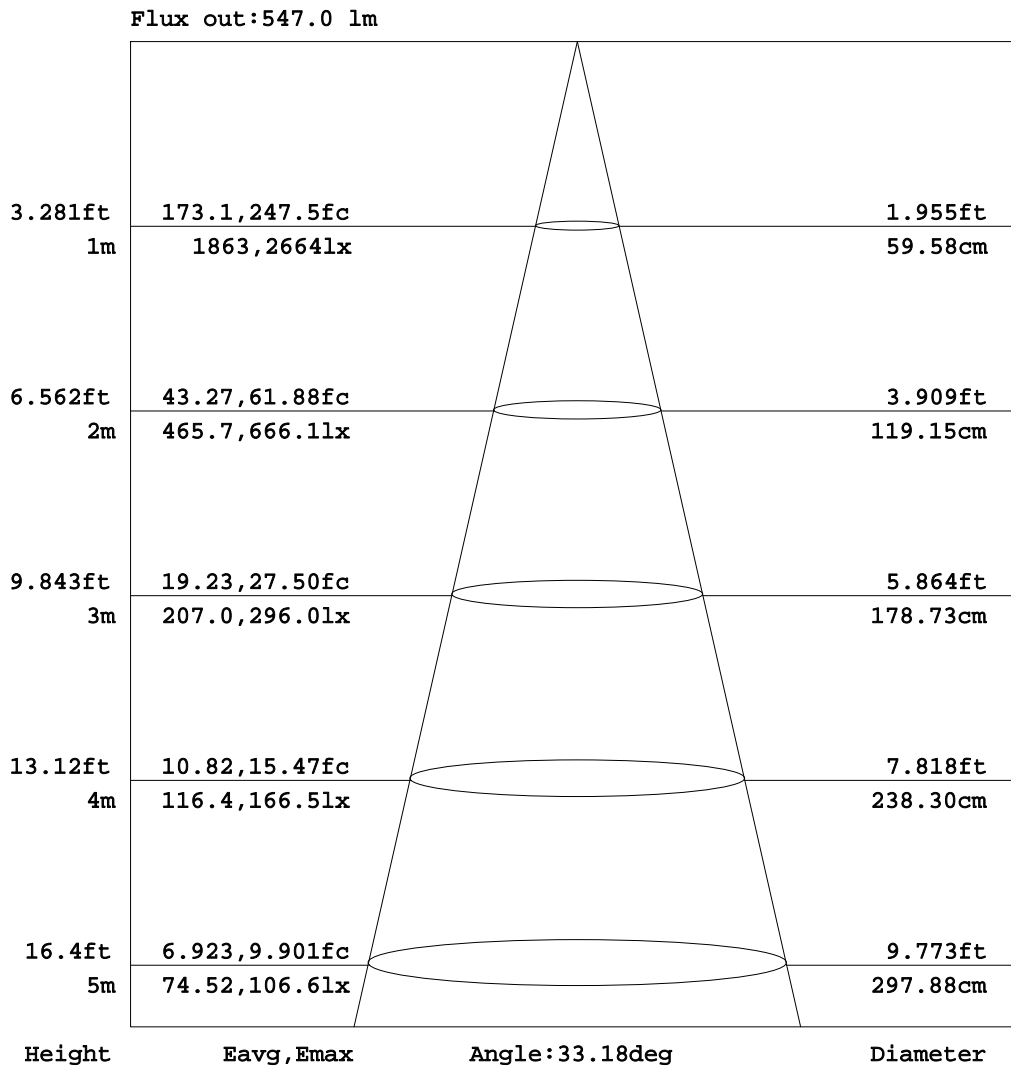
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AAI Figure

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

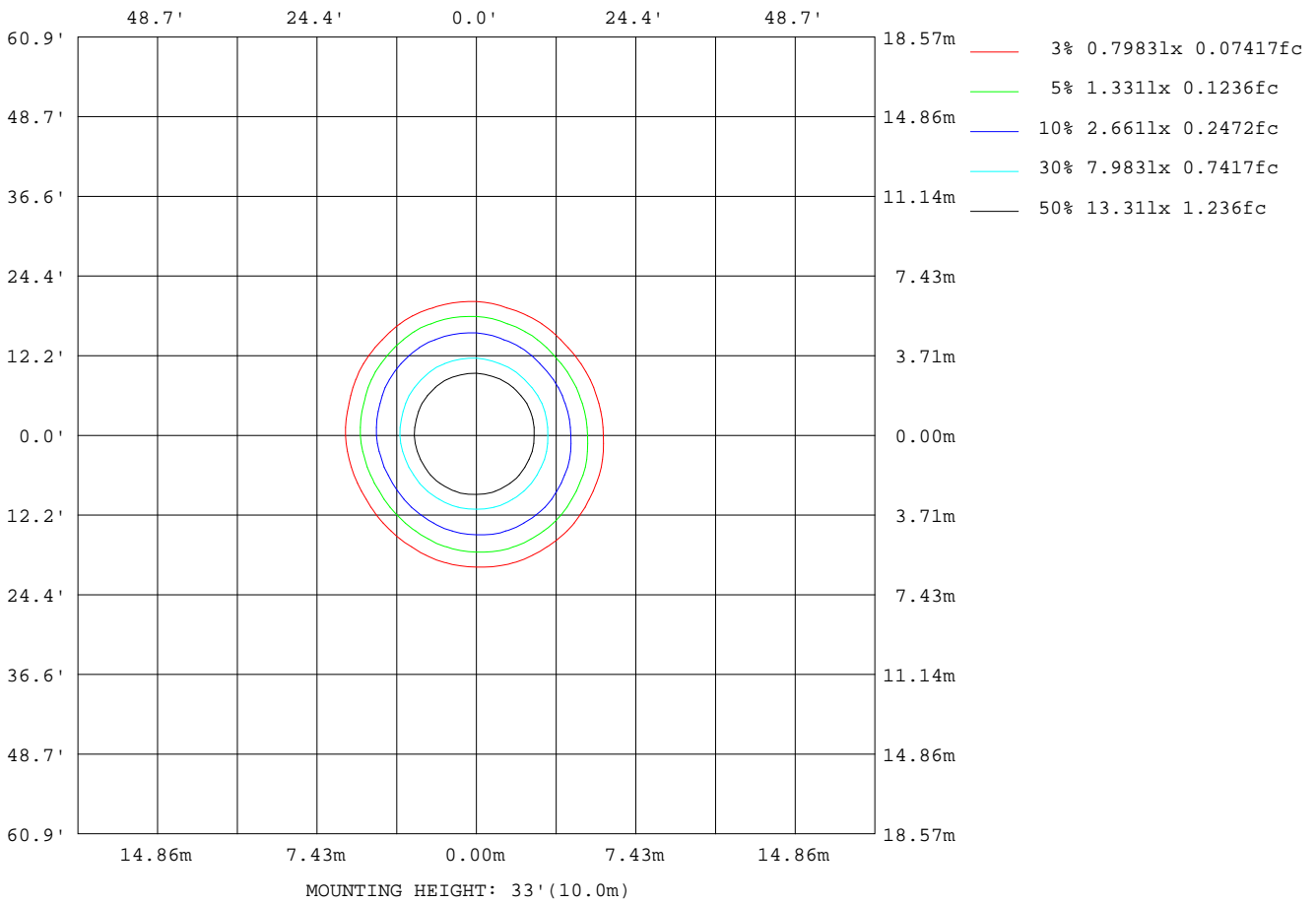
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ISOLUX DIAGRAM

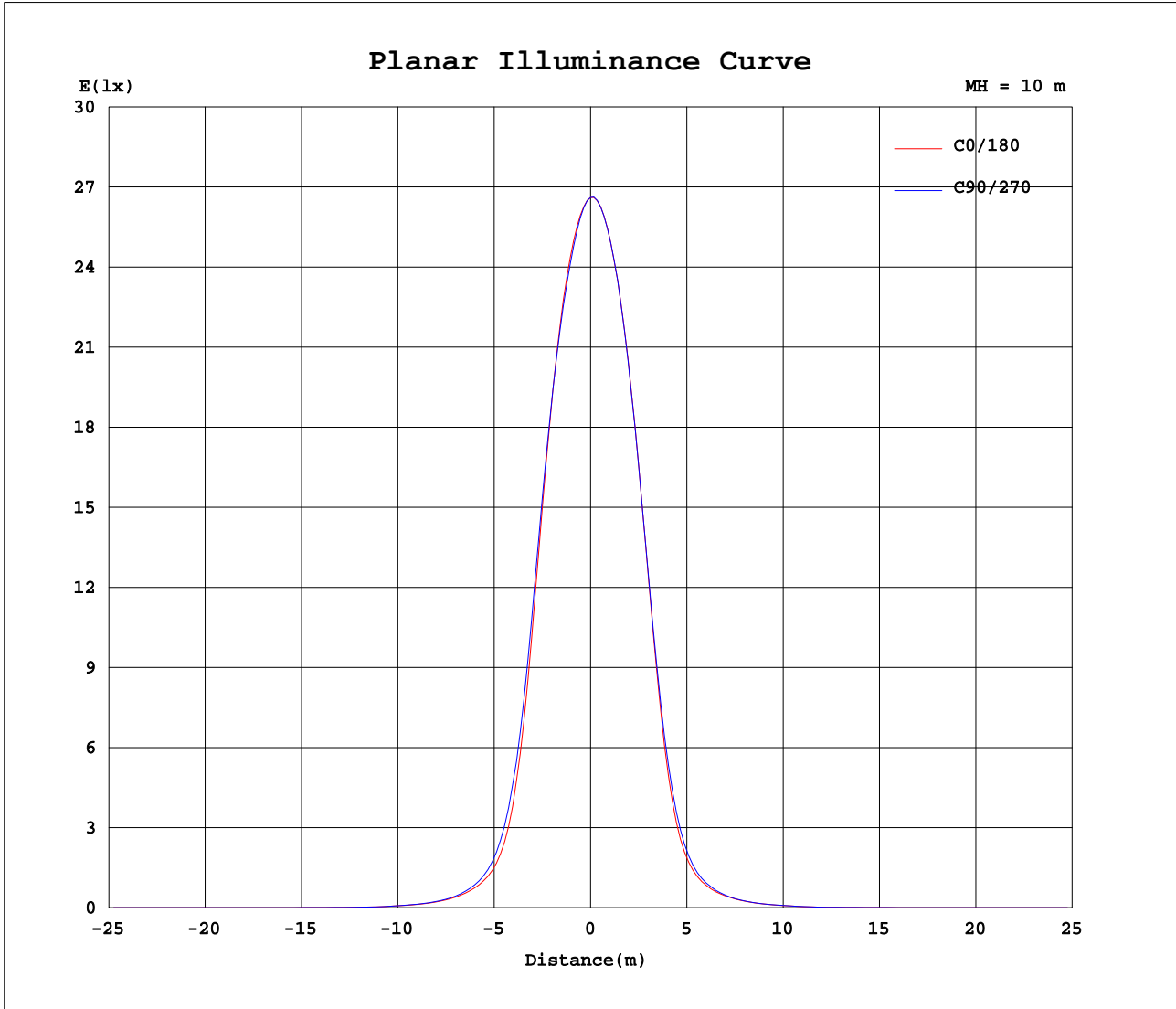
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Planar Illuminance Curve



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LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.8V I:0.0534A P:10.62W PF:0.9008 Lamp Flux:905.2x1 lm		
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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	2661	2662	2662	2663	2662	2663	2661	2662	2662	2662	2663	2663	2661	2662	2662	2663	2662	2663	2661
5	2528	2531	2520	2521	2514	2516	2507	2516	2521	2535	2541	2559	2576	2584	2596	2592	2592	2580	2574
10	2165	2174	2158	2170	2154	2164	2155	2174	2171	2203	2206	2235	2266	2278	2300	2288	2290	2264	2263
15	1490	1506	1491	1528	1521	1551	1545	1581	1581	1620	1613	1641	1675	1674	1714	1707	1722	1682	1676
20	700	732	746	790	797	815	798	811	797	811	801	838	892	908	962	972	992	949	926
25	273	297	312	340	349	358	342	334	310	301	294	314	347	369	410	426	441	415	394
30	134	142	147	157	161	164	157	153	143	140	136	142	152	157	169	174	183	177	170
35	73.6	76.4	77.6	81.6	82.1	82.7	80.0	80.0	77.4	76.0	75.6	78.5	81.6	82.4	86.2	88.1	90.9	88.2	85.9
40	39.6	41.0	41.8	43.4	43.2	43.6	42.4	42.5	41.7	42.0	41.8	43.0	44.4	45.1	47.0	47.3	48.2	46.6	45.6
45	21.9	22.5	22.6	23.4	23.1	23.4	22.8	23.1	22.8	23.2	23.0	23.6	24.5	24.9	26.0	26.3	26.7	25.7	25.3
50	8.32	8.55	8.62	8.87	8.84	8.94	8.74	8.89	8.82	8.98	8.83	9.12	9.70	9.96	10.5	10.6	10.9	10.5	10.2
55	4.52	4.69	4.63	4.68	4.66	4.72	4.52	4.50	4.48	4.63	4.63	4.79	5.22	5.37	5.53	5.48	5.65	5.50	5.39
60	2.04	2.08	2.05	2.13	2.17	2.22	2.10	2.08	2.00	2.07	2.05	2.08	2.37	2.43	2.48	2.47	2.67	2.62	2.59
65	0.55	0.58	0.57	0.57	0.57	0.63	0.63	0.61	0.57	0.62	0.64	0.64	0.70	0.73	0.78	0.78	0.87	0.86	0.86
70	0.12	0.10	0.13	0.12	0.14	0.11	0.13	0.10	0.12	0.09	0.11	0.09	0.09	0.12	0.10	0.14	0.11	0.14	0.12
75	0.08	0.06	0.08	0.07	0.08	0.07	0.09	0.07	0.08	0.06	0.07	0.06	0.05	0.08	0.06	0.08	0.07	0.08	0.06
80	0.06	0.04	0.06	0.04	0.06	0.04	0.06	0.04	0.06	0.04	0.05	0.04	0.03	0.05	0.04	0.06	0.04	0.06	0.04
85	0.04	0.04	0.05	0.04	0.04	0.04	0.05	0.03	0.04	0.03	0.04	0.03	0.03	0.04	0.03	0.04	0.03	0.04	0.03
90	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.02	0.02	0.02	0.02	0.02	0.02	0.02

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:Meng Yongjian
 Test Date:2017-08-30

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.288
 Humidity:52%
 Test Distance:5.850m [K=1.0000]
 Remarks:

GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.8V I:0.0534A P:10.62W PF:0.9008 Lamp Flux:905.2x1 lm		
NAME: K1X55-9W-830-36D	TYPE:Downlight	SERIAL No.:
SPEC.:3000K	DIM.: φ88mm*H125mm	
MFR.: NEKO LIGHTING AG		

Table--2

UNIT: cd

C (DEG) γ (DEG)	285	300	315	330	345															
0	2662	2662	2662	2663	2663															
5	2561	2556	2544	2546	2536															
10	2232	2227	2205	2210	2189															
15	1629	1625	1580	1576	1531															
20	862	834	770	753	717															
25	348	319	282	273	267															
30	154	145	133	134	132															
35	81.2	78.8	74.7	74.4	73.8															
40	43.4	42.7	41.1	41.0	40.0															
45	24.0	23.6	22.7	22.6	22.2															
50	9.57	9.30	8.79	8.72	8.46															
55	5.01	4.85	4.63	4.66	4.55															
60	2.39	2.27	2.12	2.16	2.10															
65	0.74	0.71	0.67	0.67	0.60															
70	0.13	0.10	0.12	0.09	0.12															
75	0.08	0.06	0.07	0.05	0.08															
80	0.06	0.04	0.05	0.03	0.05															
85	0.04	0.03	0.04	0.03	0.04															
90	0.02	0.02	0.02	0.02	0.02															

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:Meng Yongjian
 Test Date:2017-08-30

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.288
 Humidity:52%
 Test Distance:5.850m [K=1.0000]
 Remarks:

GONIOPHOTOMETERS SYSTEM TEST REPORT

Photometric Data Table [cd]

24.0	387.9	342.7	331.4	321.0
27.0	223.3	199.7	196.1	194.0
30.0	144.6	133.5	133.8	131.8
33.0	99.94	94.60	93.53	93.46
36.0	69.70	66.25	66.26	65.23
39.0	48.16	46.32	46.27	45.20
42.0	33.63	32.37	32.24	31.52
45.0	23.56	22.68	22.62	22.21
48.0	13.88	13.07	13.13	12.53
51.0	7.986	7.618	7.594	7.415
54.0	5.505	5.293	5.317	5.221
57.0	3.670	3.470	3.490	3.411
60.0	2.267	2.117	2.163	2.097
63.0	1.225	1.162	1.182	1.114
66.0	0.4897	0.4501	0.4417	0.3736
69.0	0.1135	0.1291	0.1026	0.1291
72.0	0.0787	0.0985	0.0720	0.0985
75.0	0.0611	0.0744	0.0546	0.0766
78.0	0.0415	0.0591	0.0415	0.0656
81.0	0.0350	0.0503	0.0328	0.0503
84.0	0.0306	0.0415	0.0306	0.0394
87.0	0.0240	0.0306	0.0262	0.0306
90.0	0.0219	0.0241	0.0241	0.0241

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: Meng Yongjian
 Test Date: 2017-08-30

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.288
 Humidity: 52%
 Test Distance: 5.850m [K=1.0000]
 Remarks: