

LED Downlight TAKEO Series T200-25W-940-60



Light Output Ratio:	100.0%	
Luminaire Power:	27.96 W	
SHR Nominal:	0.75	Calculated using the TM5
SHR Maximum:	0.95	fine grid method.

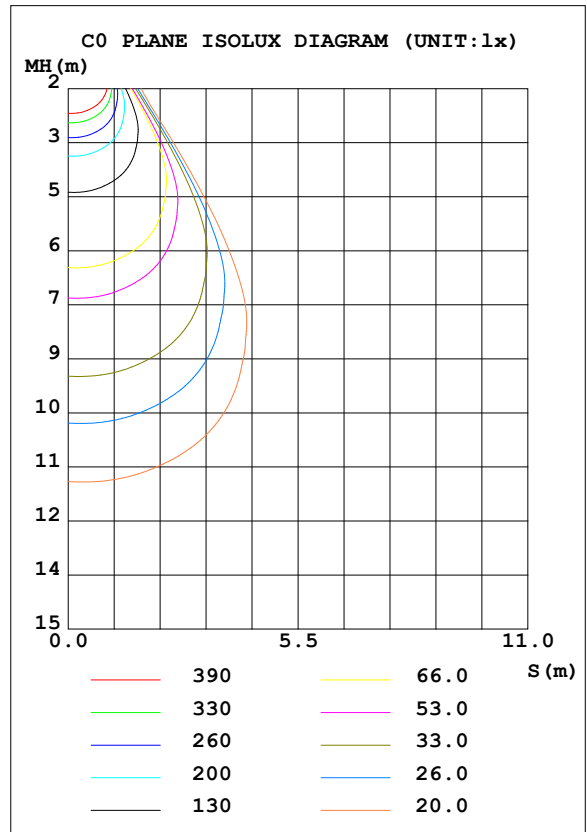
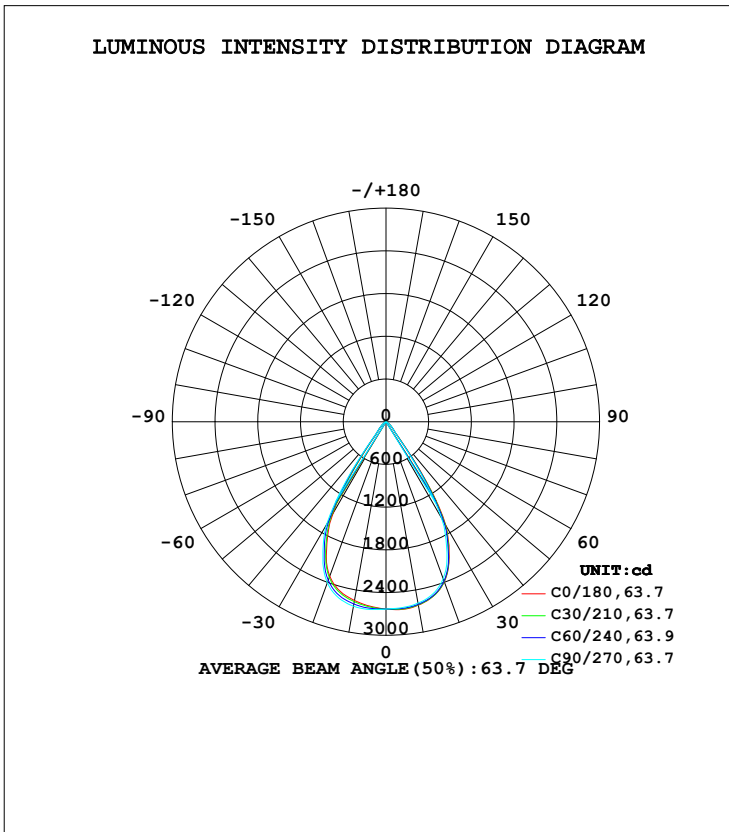
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Men Yongjian
Test Date: 2018-07-04

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:220.2V I:0.1298A P:27.96W PF:0.9672 Freq:49.90Hz Lamp Flux:2538.87x1 lm		
NAME: T200-25W-940-60	TYPE:Downlight	SERIAL No.:
SPEC.:4000K	DIM.: φ218mm*H126mm	
MFR.: NEKO LIGHTING AG		

DATA OF LAMP		PHOTOMETRIC DATA			
MODEL	CITIZEN-4000K	Imax (cd)	2659	S/MH (C0/180)	0.90
NOMINAL POWER (W)	28	LOR (%)	100.0	S/MH (C90/270)	0.93
RATED VOLTAGE (V)	220	TOTAL FLUX (lm)	2538.9	η UP, DN (C0-180)	0.0,49.6
NOMINAL FLUX (lm)	2538.87	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0,50.4
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	0.75
TEST VOLTAGE (V)	220	η down (%)	100.0	CIBSE SHR MAX	0.95



C Range: 0 - 360DEG
 C Interval: 15.0DEG
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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	2617	2611	2587	2556	2549	2581	2630	2638	0- 10	249.9	249.9	9.84,9.84
20	2394	2393	2348	2310	2309	2343	2407	2426	10- 20	707.8	957.7	37.7,37.7
30	1683	1669	1564	1487	1496	1562	1672	1718	20- 30	931.5	1889	74.4,74.4
40	219.9	226.5	214.1	205.6	196.5	196.3	214.4	227.0	30- 40	486.8	2376	93.6,93.6
50	85.30	88.85	85.38	83.72	77.88	76.93	81.70	87.38	40- 50	103.8	2480	97.7,97.7
60	27.23	27.54	25.92	27.01	25.28	23.69	24.84	28.17	50- 60	43.48	2523	99.4,99.4
70	5.694	5.477	4.670	4.655	4.226	3.602	4.197	5.310	60- 70	14.42	2538	100,100
80	0.2172	0.1795	0.2056	0.1832	0.1643	0.1730	0.1638	0.2031	70- 80	1.068	2539	100,100
90	0.1645	0.1620	0.1661	0.1615	0.0855	0.0876	0.0874	0.0960	80- 90	0.1646	2539	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): 2437 lm

%lum = 96.0%
%lamp = 96.0%

Conical surface Flux(120deg): 2523.2 lm

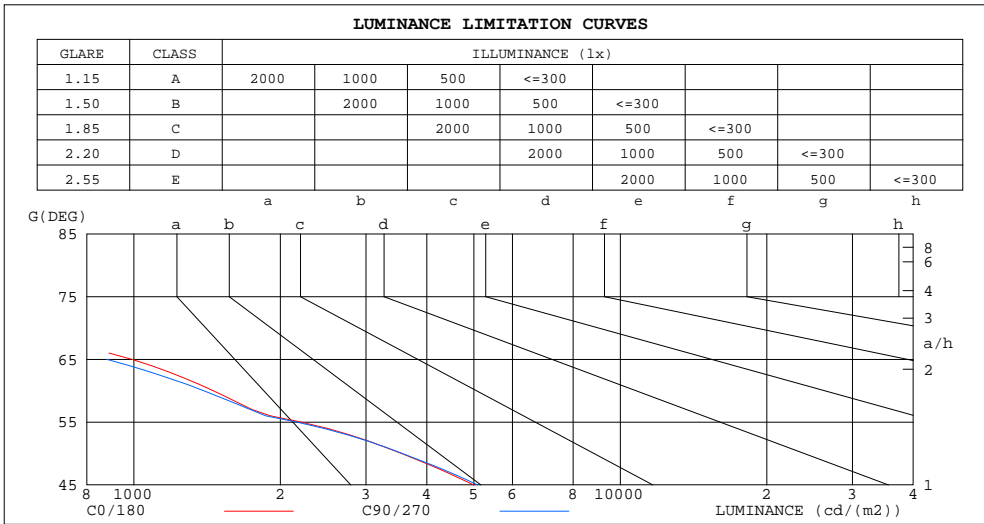
%lum = 99.4%
%lamp = 99.4%

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LUMINANCE LIMITATION CURVES

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LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	55	56
80	33	32
75	30	28
70	445	366
65	990	879
60	1455	1390
55	2203	2160
50	3547	3562
45	4997	5092

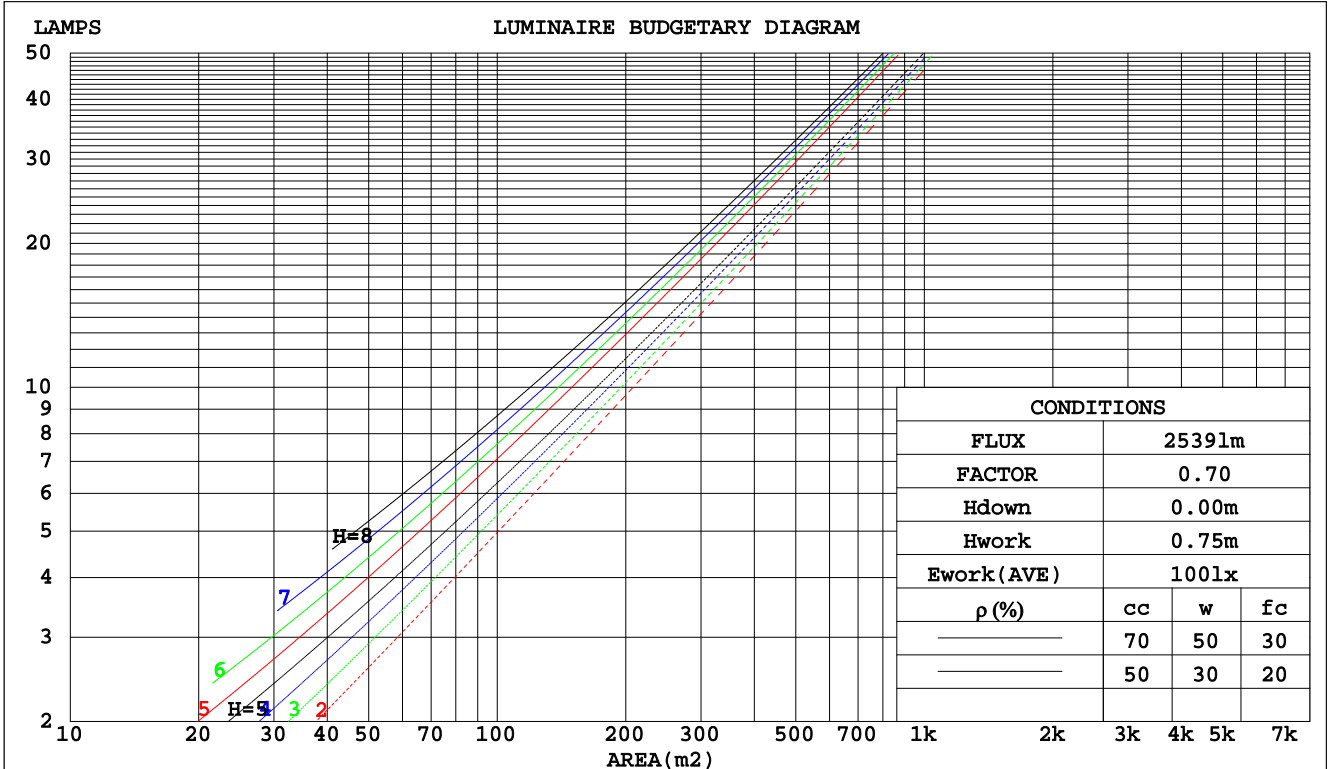
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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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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	1.11	1.08	1.06	1.09	1.06	1.04	1.05	1.03	1.01	1.01	.99	.98	.97	.96	.95	.94
2.0	1.03	.99	.96	1.01	.98	.95	.98	.95	.93	.95	.93	.91	.92	.90	.89	.87
3.0	.96	.91	.87	.95	.90	.87	.92	.88	.85	.90	.87	.84	.88	.85	.83	.81
4.0	.90	.84	.80	.89	.84	.80	.87	.82	.79	.85	.81	.78	.83	.80	.77	.75
5.0	.84	.78	.74	.83	.78	.74	.82	.77	.73	.80	.76	.73	.78	.75	.72	.70
6.0	.79	.73	.69	.78	.73	.69	.77	.72	.68	.75	.71	.68	.74	.70	.67	.66
7.0	.74	.68	.64	.74	.68	.64	.72	.67	.64	.71	.67	.63	.70	.66	.63	.62
8.0	.70	.64	.60	.70	.64	.60	.68	.63	.60	.67	.63	.59	.66	.62	.59	.58
9.0	.66	.60	.56	.66	.60	.56	.65	.60	.56	.64	.59	.56	.63	.59	.56	.54
10.0	.63	.57	.53	.62	.57	.53	.61	.56	.53	.61	.56	.53	.60	.56	.52	.51



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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	.177	.101	.032	.170	.097	.031	.158	.091	.029	.146	.084	.027	.136	.079	.025	
2.0	.170	.093	.029	.164	.090	.028	.154	.085	.027	.144	.081	.025	.135	.076	.024	
3.0	.162	.086	.026	.157	.084	.025	.148	.080	.024	.140	.077	.024	.132	.073	.023	
4.0	.155	.080	.024	.150	.079	.023	.143	.076	.023	.135	.073	.022	.129	.070	.021	
5.0	.147	.075	.022	.144	.074	.022	.137	.071	.021	.131	.069	.021	.125	.067	.020	
6.0	.141	.071	.020	.138	.070	.020	.132	.067	.020	.126	.066	.019	.121	.064	.019	
7.0	.135	.067	.019	.132	.066	.019	.127	.064	.018	.122	.062	.018	.117	.061	.018	
8.0	.129	.063	.018	.127	.062	.018	.122	.061	.017	.117	.059	.017	.113	.058	.017	
9.0	.124	.060	.017	.121	.059	.017	.117	.058	.016	.113	.057	.016	.109	.056	.016	
10.0	.119	.057	.016	.117	.056	.016	.113	.055	.016	.109	.054	.015	.106	.053	.015	

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	.145	.146	.135	.125	.100	.093	.086	.058	.054	.050	.018	.017	.016	
2.0	.156	.132	.113	.134	.114	.097	.092	.079	.068	.053	.046	.040	.017	.015	.013	
3.0	.144	.114	.090	.123	.098	.078	.085	.068	.054	.049	.040	.032	.016	.013	.011	
4.0	.134	.099	.072	.115	.085	.063	.079	.060	.044	.046	.035	.026	.015	.011	.009	
5.0	.125	.087	.059	.107	.076	.052	.074	.053	.037	.043	.031	.022	.014	.010	.007	
6.0	.118	.078	.050	.101	.068	.043	.070	.047	.031	.040	.028	.018	.013	.009	.006	
7.0	.111	.070	.042	.096	.061	.037	.066	.043	.026	.038	.025	.015	.012	.008	.005	
8.0	.106	.064	.036	.091	.056	.031	.063	.039	.022	.037	.023	.013	.012	.008	.004	
9.0	.101	.059	.031	.087	.051	.027	.060	.036	.019	.035	.021	.011	.011	.007	.004	
10.0	.096	.055	.027	.083	.048	.024	.057	.033	.017	.034	.020	.010	.011	.006	.003	

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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:

UGR(Unified Glare Rating) Table

Test:U:220.2V I:0.1298A P:27.96W PF:0.9672 Freq:49.90Hz Lamp Flux:2538.87x1 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	12.1	13.0	12.3	13.2	13.3	11.6	12.6	11.8	12.7	12.9
3H	11.9	12.8	12.2	13.0	13.2	11.5	12.3	11.7	12.5	12.7
4H	11.8	12.7	12.1	12.9	13.1	11.4	12.2	11.6	12.4	12.6
6H	11.7	12.5	12.0	12.8	13.0	11.3	12.1	11.6	12.3	12.5
8H	11.7	12.4	12.0	12.7	13.0	11.2	12.0	11.5	12.2	12.5
12H	11.6	12.4	12.0	12.6	12.9	11.2	11.9	11.5	12.2	12.4
4H 2H	11.8	12.7	12.1	12.9	13.1	11.4	12.2	11.7	12.4	12.7
3H	11.7	12.4	12.0	12.7	13.0	11.2	12.0	11.6	12.2	12.5
4H	11.6	12.2	11.9	12.5	12.9	11.2	11.8	11.5	12.1	12.4
6H	11.5	12.1	11.9	12.4	12.7	11.1	11.6	11.4	12.0	12.3
8H	11.5	12.0	11.8	12.3	12.7	11.0	11.5	11.4	11.9	12.2
12H	11.4	11.9	11.8	12.3	12.6	11.0	11.4	11.4	11.8	12.2
8H 4H	11.5	12.0	11.8	12.3	12.7	11.0	11.5	11.4	11.9	12.2
6H	11.4	11.8	11.8	12.2	12.6	10.9	11.3	11.3	11.7	12.1
8H	11.3	11.7	11.7	12.1	12.5	10.9	11.2	11.3	11.6	12.1
12H	11.2	11.6	11.7	12.0	12.5	10.8	11.1	11.3	11.6	12.0
12H 4H	11.4	11.9	11.8	12.3	12.6	11.0	11.4	11.4	11.8	12.2
6H	11.3	11.7	11.7	12.1	12.5	10.9	11.2	11.3	11.6	12.1
8H	11.2	11.6	11.7	12.0	12.5	10.8	11.1	11.3	11.6	12.0
Variations with the observer position at spacings:										
S = 1.0H	+ 4.0 / - 6.2					+ 3.4 / - 5.7				
1.5H	+ 5.5 / - 4.6					+ 4.6 / - 4.3				
2.0H	+ 3.7 / - 4.4					+ 3.9 / - 4.5				

CIE Pub.117, 2539 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 3.2)

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UTILIZATION FACTORS TABLE

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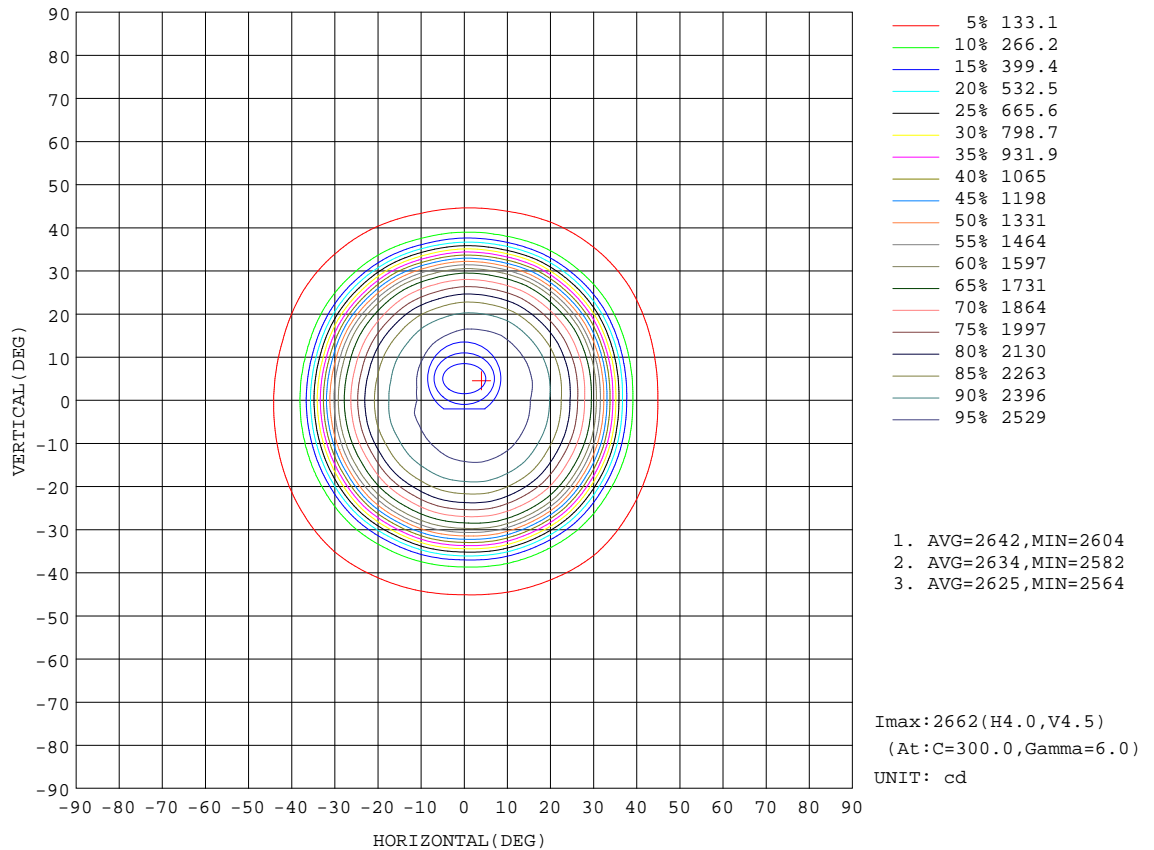
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	87	81	77	87	81	77	86	81	77	74
0.80	95	89	85	94	89	85	93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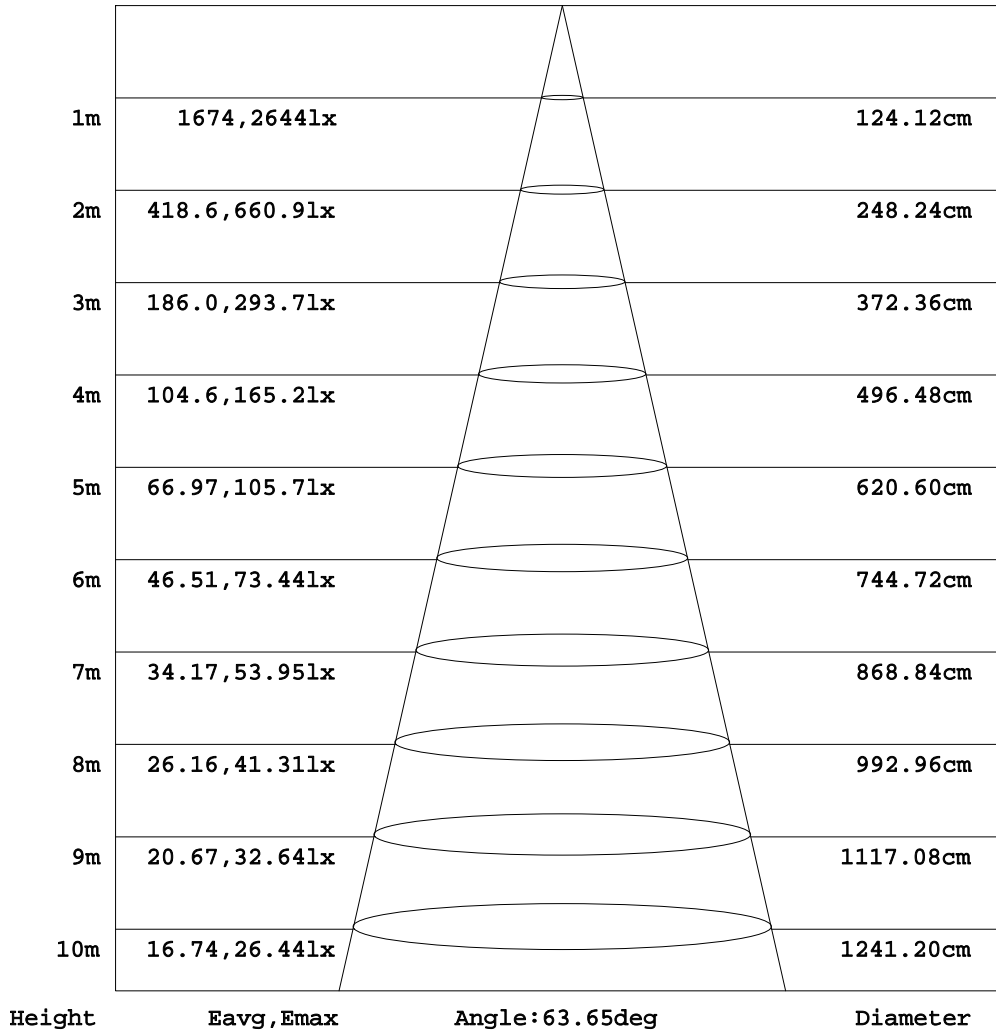
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AAI Figure

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Flux out:2054 lm



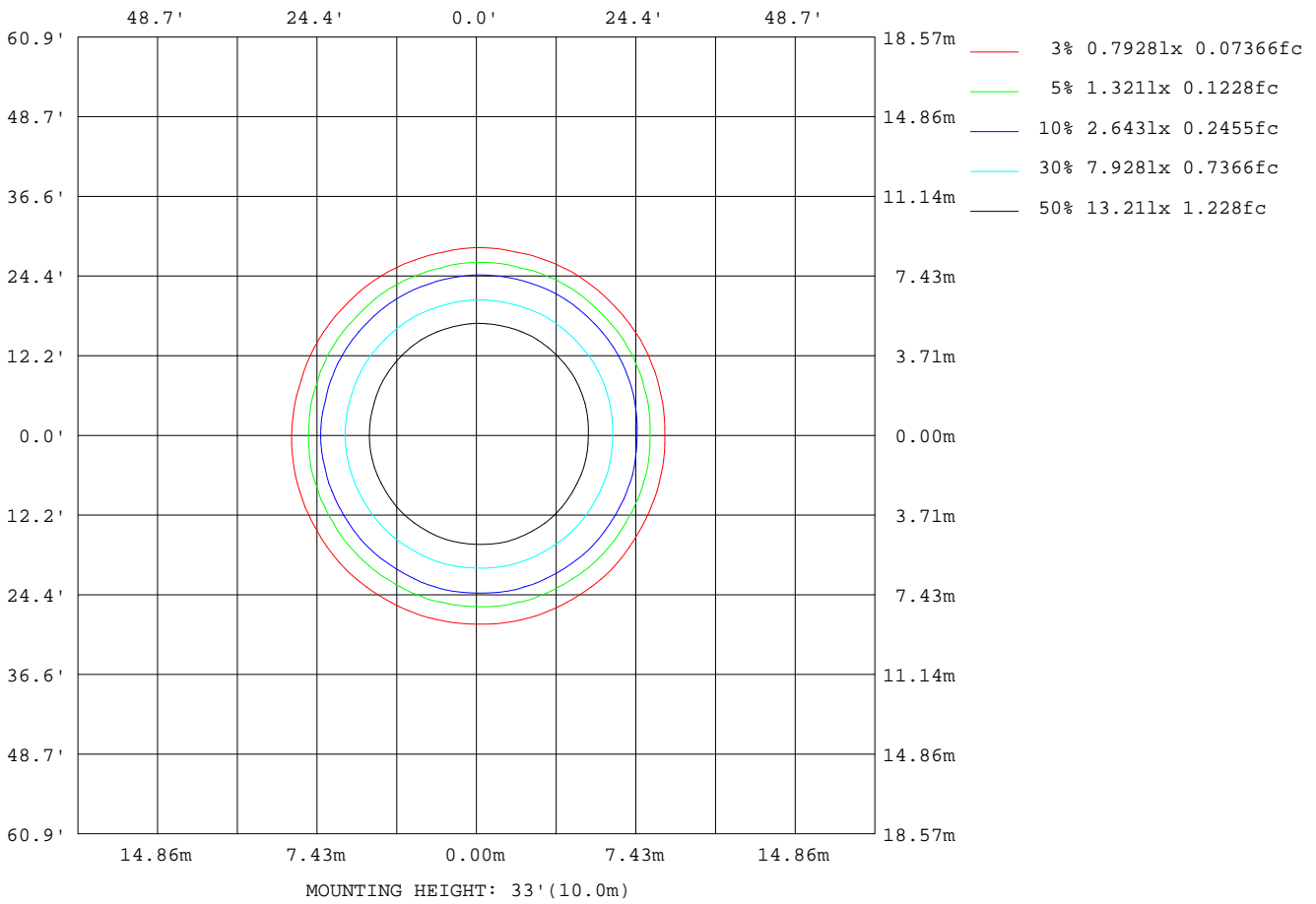
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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ISOLUX DIAGRAM

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LED Avg.L Report

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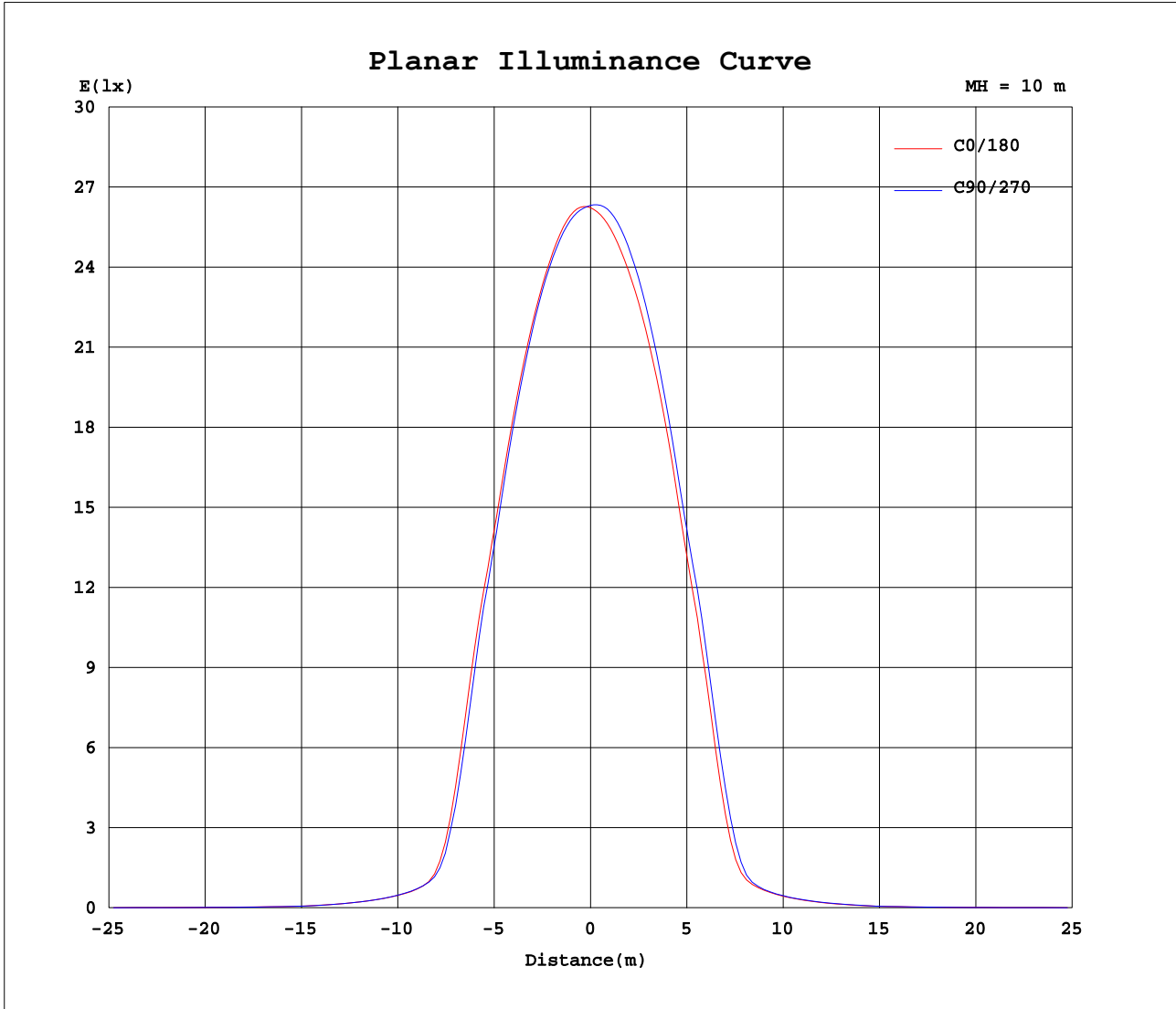
AvgL	cd/m2
L_0~180 (65) av	937
L_0~180 (75) av	27
L_0~180 (85) av	45
L_90~270 (65) av	856
L_90~270 (75) av	26
L_90~270 (85) av	45
L_45 (65) av	919
L_45 (75) av	27
L_45 (85) av	47

Standard: GB/T 29293-2012

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C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Men Yongjian
Test Date:2018-07-04

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: 2018-07-04

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:220.2V I:0.1298A P:27.96W PF:0.9672 Freq:49.90Hz Lamp Flux:2538.87x1 lm		
NAME: T200-25W-940-60	TYPE:Downlight	SERIAL No.:
SPEC.:4000K	DIM.: \varnothing 218mm*H126mm	
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	2631	2631	2631	2631	2631	2631	2631	2631	2631	2631	2631	2631	2631	2631	2631	2631	2631	2631	2631
5	2645	2643	2640	2635	2631	2626	2620	2613	2605	2601	2599	2600	2600	2604	2611	2619	2630	2639	2647
10	2617	2616	2613	2611	2604	2598	2587	2578	2564	2556	2550	2549	2549	2554	2566	2581	2599	2615	2630
15	2543	2544	2542	2542	2534	2527	2512	2501	2486	2478	2468	2467	2470	2474	2489	2506	2529	2545	2563
20	2394	2396	2390	2393	2382	2372	2348	2336	2318	2310	2296	2301	2309	2309	2328	2343	2370	2383	2407
25	2102	2102	2089	2097	2079	2066	2028	2013	1982	1972	1950	1960	1978	1975	2005	2020	2056	2065	2099
30	1683	1687	1663	1669	1632	1618	1564	1548	1503	1487	1471	1473	1496	1506	1551	1562	1612	1620	1672
35	828	836	793	806	761	756	696	689	635	640	615	617	638	634	667	677	738	750	815
40	220	223	220	226	223	223	214	213	207	206	199	197	197	192	195	196	203	204	214
45	132	134	135	139	138	138	134	135	133	132	128	126	124	121	122	122	124	124	129
50	85.3	86.0	86.7	88.8	88.3	87.6	85.4	85.2	84.0	83.7	81.0	79.1	77.9	76.0	76.6	76.9	78.3	78.9	81.7
55	47.3	48.1	48.1	49.6	48.2	48.0	46.2	46.1	45.1	45.5	42.9	42.0	41.1	38.9	40.0	39.2	40.9	41.0	44.0
60	27.2	27.1	27.0	27.5	27.1	27.0	25.9	26.1	26.2	27.0	26.7	26.1	25.3	24.1	24.1	23.7	24.0	23.8	24.8
65	15.7	15.6	15.0	15.2	14.8	14.6	13.9	14.1	14.0	14.6	14.3	14.2	13.9	13.1	12.9	12.5	12.8	12.5	13.1
70	5.69	5.77	5.43	5.48	5.10	5.03	4.67	4.78	4.55	4.65	4.28	4.24	4.23	3.61	3.64	3.60	3.96	3.83	4.20
75	0.29	0.26	0.28	0.25	0.27	0.25	0.27	0.25	0.27	0.25	0.27	0.24	0.23	0.25	0.22	0.24	0.22	0.25	0.24
80	0.22	0.19	0.20	0.18	0.21	0.18	0.21	0.18	0.21	0.18	0.20	0.18	0.16	0.18	0.15	0.17	0.15	0.18	0.16
85	0.18	0.16	0.18	0.17	0.18	0.16	0.18	0.17	0.18	0.16	0.17	0.16	0.11	0.13	0.11	0.13	0.11	0.13	0.11
90	0.16	0.16	0.16	0.16	0.16	0.16	0.17	0.16	0.16	0.16	0.16	0.16	0.09	0.09	0.08	0.09	0.09	0.09	0.09

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:Men Yongjian
 Test Date:2018-07-04

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:220.2V I:0.1298A P:27.96W PF:0.9672 Freq:49.90Hz Lamp Flux:2538.87x1 lm		
NAME: T200-25W-940-60	TYPE:Downlight	SERIAL No.:
SPEC.:4000K	DIM.: φ218mm*H126mm	
MFR.: NEKO LIGHTING AG		

Table--2

UNIT: cd

C (DEG) γ (DEG)	285	300	315	330	345													
0	2631	2631	2631	2631	2631													
5	2652	2657	2657	2654	2648													
10	2637	2644	2638	2631	2622													
15	2570	2579	2571	2563	2551													
20	2417	2432	2426	2423	2407													
25	2112	2141	2138	2142	2122													
30	1682	1723	1718	1734	1707													
35	829	892	885	910	871													
40	217	228	227	233	226													
45	130	134	134	136	134													
50	83.2	86.1	87.4	88.3	87.1													
55	44.6	47.6	48.8	50.3	49.1													
60	25.6	27.3	28.2	28.8	28.1													
65	13.8	15.0	15.6	16.3	16.2													
70	4.42	5.05	5.31	5.89	5.94													
75	0.27	0.26	0.29	0.27	0.29													
80	0.19	0.17	0.20	0.18	0.20													
85	0.14	0.13	0.15	0.13	0.15													
90	0.09	0.09	0.10	0.10	0.10													

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:Men Yongjian
 Test Date:2018-07-04

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: