

LED Downlight TAKEO Series T200-25W-940-18



Light Output Ratio:	100.0%	
Luminaire Power:	27.86 W	
SHR Nominal:	0.00	Calculated using the TM5
SHR Maximum:	1.00	fine grid method.

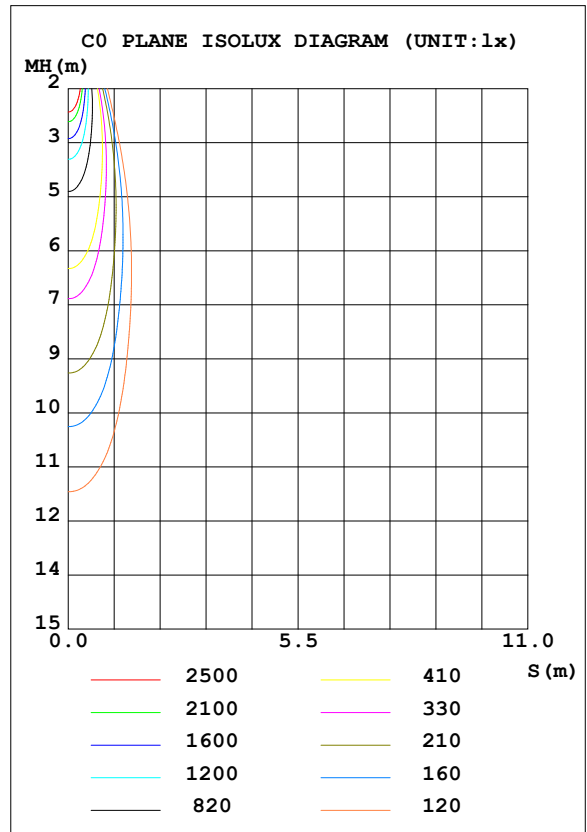
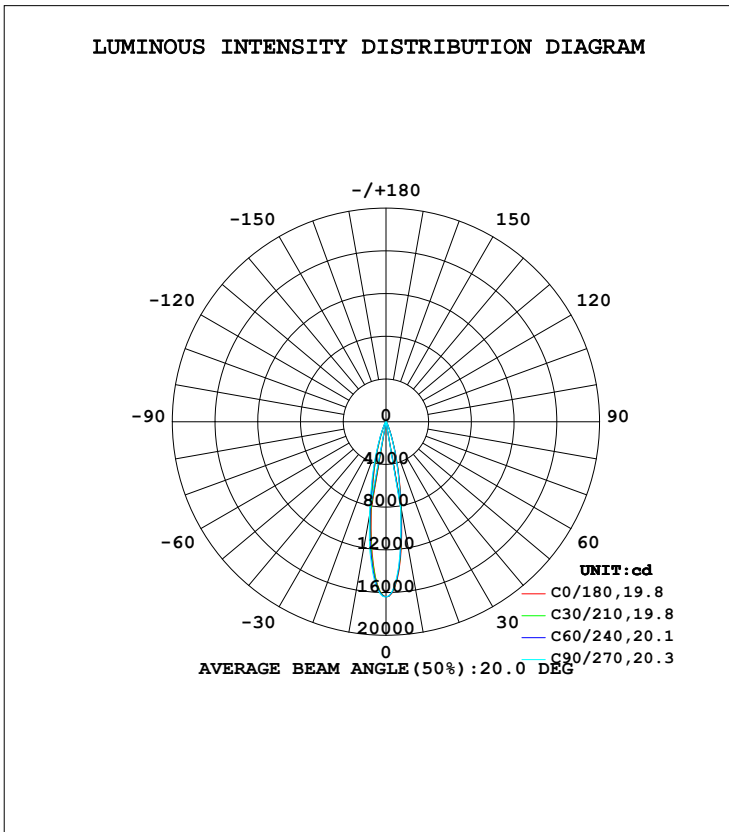
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Men Yongjian
Test Date: 2018-07-04

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:220.4V I:0.1297A P:27.86W PF:0.9669 Freq:49.90Hz Lamp Flux:2826.88x1 lm		
NAME: T200-25W-940-18	TYPE:Downlight	SERIAL No.:
SPEC.:4000K	DIM.: φ218mm*H126mm	
MFR.: NEKO LIGHTING AG		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 101.47 lm/W			
MODEL	CITIZEN-4000K	I _{max} (cd)	16424	S/MH (C0/180)	0.33
NOMINAL POWER (W)	28	LOR (%)	100.0	S/MH (C90/270)	0.36
RATED VOLTAGE (V)	220	TOTAL FLUX (lm)	2826.9	η UP, DN (C0-180)	0.0, 48.0
NOMINAL FLUX (lm)	2826.88	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 52.0
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	0.00
TEST VOLTAGE (V)	220	η down (%)	100.0	CIBSE SHR MAX	1.00



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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	835.7	818.9	781.6	764.3	782.0	819.4	891.3	893.3	0- 10	1132	1132	40,40
20	170.5	163.3	147.1	146.5	150.7	164.3	192.2	191.9	10- 20	1139	2271	80.3,80.3
30	33.79	33.18	30.72	29.60	30.57	33.32	36.48	36.45	20- 30	334.2	2605	92.2,92.2
40	14.12	14.17	13.36	12.86	12.93	13.77	14.49	14.57	30- 40	133.1	2738	96.9,96.9
50	4.371	4.697	4.258	4.120	3.946	4.323	4.305	4.504	40- 50	64.08	2802	99.1,99.1
60	0.9878	1.028	0.9567	0.9573	0.8702	0.8955	0.8840	0.9830	50- 60	19.23	2821	99.8,99.8
70	0.1810	0.1887	0.1560	0.1474	0.1323	0.1257	0.1382	0.1724	60- 70	4.900	2826	100,100
80	0.0173	0.0142	0.0171	0.0142	0.0142	0.0156	0.0142	0.0168	70- 80	0.4341	2827	100,100
90	0.0118	0.0116	0.0118	0.0111	0.0092	0.0092	0.0092	0.0103	80- 90	0.1468	2827	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:×10cd									UNIT:lm		

Conical surface Flux(90deg): 2778 lm

%lum = 98.3%
%lamp = 98.3%

Conical surface Flux(120deg): 2821.4 lm

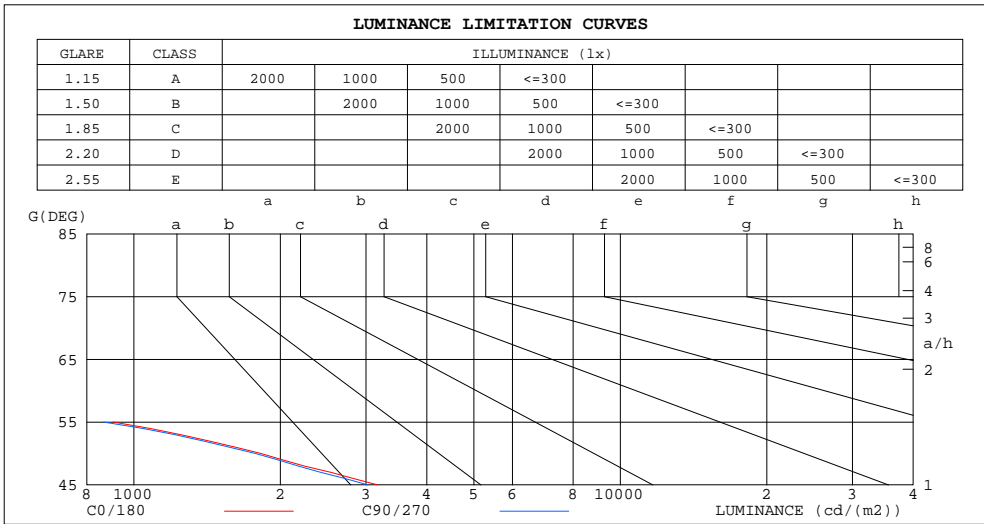
%lum = 99.8%
%lamp = 99.8%

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γ Range: 0 - 90DEG
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Humidity:56%
Test Distance:5.850m [K=1.0000]
Remarks:

LUMINANCE LIMITATION CURVES

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LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	45	45
80	27	26
75	22	21
70	142	122
65	327	300
60	529	513
55	907	867
50	1822	1776
45	3174	3030

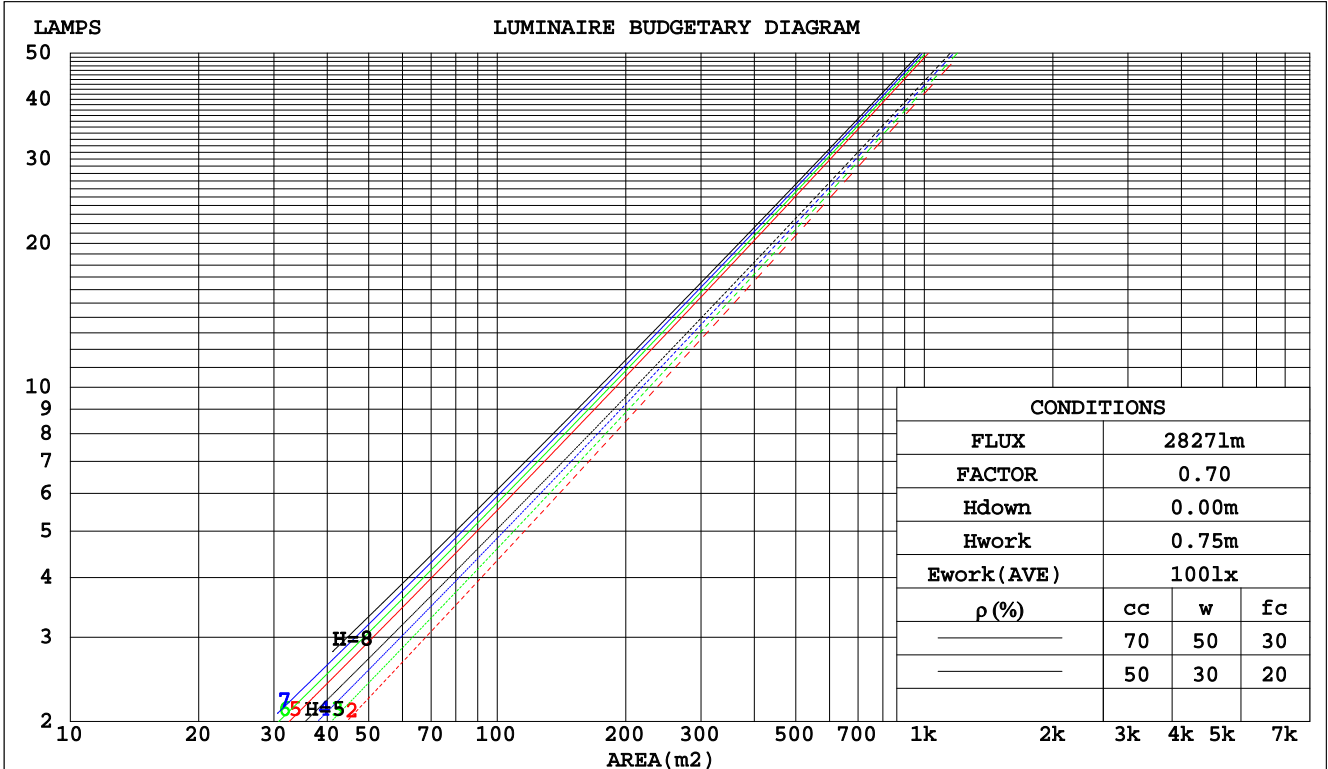
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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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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																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	1.13	1.11	1.09	1.11	1.09	1.08	1.07	1.06	1.04	1.03	1.02	1.01	.00	.99	.98	.97
2.0	1.08	1.05	1.02	1.06	1.03	1.01	1.03	1.01	.99	1.00	.98	.97	.97	.96	.95	.93
3.0	1.03	.00	.97	1.02	.99	.96	.99	.97	.94	.97	.95	.93	.95	.93	.92	.90
4.0	.99	.95	.92	.98	.94	.92	.96	.93	.91	.94	.92	.90	.93	.90	.89	.87
5.0	.96	.91	.88	.95	.91	.88	.93	.90	.87	.92	.89	.87	.90	.88	.86	.85
6.0	.92	.88	.85	.92	.88	.85	.90	.87	.84	.89	.86	.84	.88	.85	.83	.82
7.0	.90	.85	.83	.89	.85	.82	.88	.84	.82	.87	.84	.82	.86	.83	.81	.80
8.0	.87	.83	.80	.86	.83	.80	.85	.82	.80	.85	.82	.79	.84	.81	.79	.78
9.0	.84	.80	.78	.84	.80	.78	.83	.80	.77	.83	.79	.77	.82	.79	.77	.76
10.0	.82	.78	.76	.82	.78	.76	.81	.78	.75	.81	.78	.75	.80	.77	.75	.74



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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	.136	.077	.025	.129	.074	.023	.117	.067	.021	.106	.061	.020	.095	.055	.018	
2.0	.126	.069	.021	.121	.067	.021	.111	.062	.019	.101	.057	.018	.093	.052	.017	
3.0	.118	.063	.019	.113	.061	.018	.105	.057	.017	.097	.053	.016	.090	.050	.015	
4.0	.110	.057	.017	.106	.056	.016	.099	.053	.016	.093	.050	.015	.086	.047	.014	
5.0	.104	.053	.015	.100	.052	.015	.094	.049	.014	.089	.047	.014	.083	.045	.013	
6.0	.098	.049	.014	.095	.048	.014	.090	.046	.013	.085	.044	.013	.080	.042	.013	
7.0	.093	.046	.013	.090	.045	.013	.086	.043	.013	.082	.042	.012	.078	.040	.012	
8.0	.088	.043	.012	.086	.042	.012	.082	.041	.012	.078	.040	.011	.075	.038	.011	
9.0	.084	.041	.011	.082	.040	.011	.079	.039	.011	.076	.038	.011	.072	.037	.011	
10.0	.081	.039	.011	.079	.038	.011	.076	.037	.010	.073	.036	.010	.070	.035	.010	

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	.168	.158	.148	.144	.135	.127	.098	.093	.088	.057	.054	.051	.018	.017	.017	
2.0	.150	.133	.118	.129	.114	.102	.088	.079	.071	.051	.046	.042	.016	.015	.014	
3.0	.135	.113	.096	.116	.098	.083	.080	.068	.058	.046	.040	.034	.015	.013	.011	
4.0	.123	.098	.079	.105	.085	.069	.072	.059	.048	.042	.035	.029	.013	.011	.009	
5.0	.112	.086	.066	.096	.074	.057	.066	.052	.041	.038	.030	.024	.012	.010	.008	
6.0	.103	.076	.056	.089	.065	.049	.061	.046	.034	.035	.027	.020	.011	.009	.007	
7.0	.095	.067	.048	.082	.058	.042	.057	.041	.029	.033	.024	.018	.011	.008	.006	
8.0	.089	.061	.041	.076	.053	.036	.053	.037	.025	.031	.022	.015	.010	.007	.005	
9.0	.083	.055	.036	.072	.048	.031	.050	.033	.022	.029	.020	.013	.009	.006	.004	
10.0	.078	.050	.031	.067	.043	.027	.047	.031	.019	.027	.018	.012	.009	.006	.004	

C Range: 0 - 360DEG
 C Interval: 15.0DEG
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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:220.4V I:0.1297A P:27.86W PF:0.9669 Freq:49.90Hz Lamp Flux:2826.88x1 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	3.3	4.0	3.5	4.1	4.3	3.2	3.8	3.4	4.0	4.1
3H	3.2	3.8	3.4	4.0	4.2	3.1	3.7	3.3	3.8	4.0
4H	3.1	3.7	3.4	3.9	4.1	3.0	3.6	3.2	3.8	4.0
6H	3.0	3.6	3.3	3.8	4.1	2.9	3.4	3.2	3.7	3.9
8H	3.0	3.5	3.3	3.8	4.0	2.9	3.4	3.1	3.6	3.9
12H	3.0	3.5	3.3	3.7	4.0	2.8	3.3	3.1	3.6	3.8
4H 2H	3.2	3.7	3.4	3.9	4.2	3.0	3.6	3.3	3.8	4.0
3H	3.0	3.5	3.3	3.8	4.1	2.9	3.4	3.2	3.6	3.9
4H	2.9	3.4	3.3	3.7	4.0	2.8	3.3	3.1	3.5	3.8
6H	2.8	3.2	3.2	3.6	3.9	2.7	3.1	3.1	3.4	3.8
8H	2.8	3.2	3.2	3.5	3.9	2.6	3.0	3.0	3.4	3.7
12H	2.7	3.1	3.1	3.4	3.8	2.6	2.9	3.0	3.3	3.7
8H 4H	2.8	3.2	3.2	3.5	3.9	2.6	3.0	3.0	3.4	3.7
6H	2.7	3.0	3.1	3.4	3.8	2.5	2.8	2.9	3.2	3.6
8H	2.6	2.9	3.1	3.3	3.7	2.5	2.7	2.9	3.2	3.6
12H	2.5	2.8	3.0	3.2	3.7	2.4	2.6	2.9	3.1	3.5
12H 4H	2.7	3.1	3.1	3.4	3.8	2.6	2.9	3.0	3.3	3.7
6H	2.6	2.9	3.1	3.3	3.7	2.5	2.7	2.9	3.2	3.6
8H	2.5	2.8	3.0	3.2	3.7	2.4	2.6	2.9	3.1	3.5
Variations with the observer position at spacings:										
S = 1.0H	+ 2.4 / - 7.9					+ 2.4 / - 7.7				
1.5H	+ 3.4 / - 6.4					+ 3.1 / - 6.1				
2.0H	+ 5.3 / - 6.9					+ 5.0 / - 6.8				

CIE Pub.117, 2827 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 3.6)

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 Remarks:

UTILIZATION FACTORS TABLE

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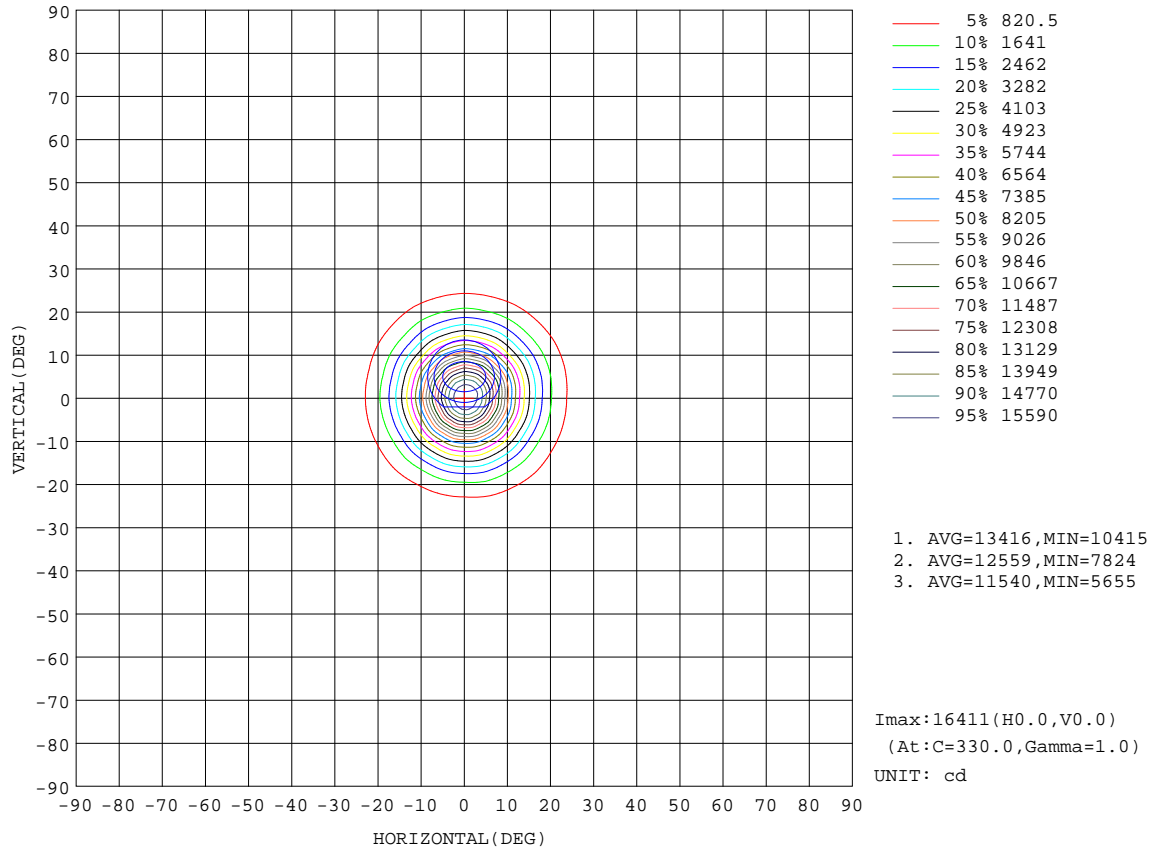
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	90	84	80	89	83	80	88	83	80	77
0.80	97	91	88	96	91	88	95	90	87	84
1.00	101	96	92	100	95	92	98	95	91	88
1.25	105	100	96	104	99	96	102	98	95	91
1.50	107	103	100	106	102	99	104	100	98	94
2.00	109	106	103	108	104	102	105	103	100	95
2.50	111	107	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	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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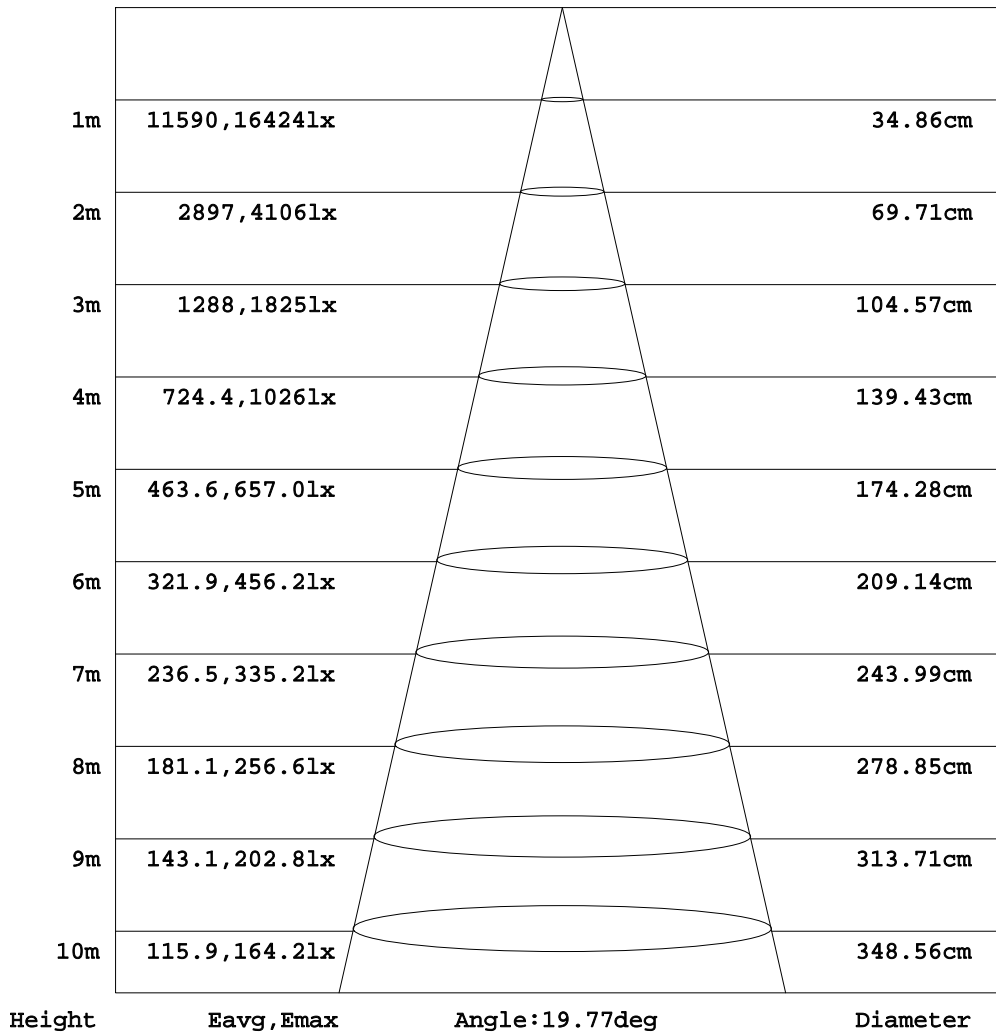
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AAI Figure

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Flux out:1132 lm



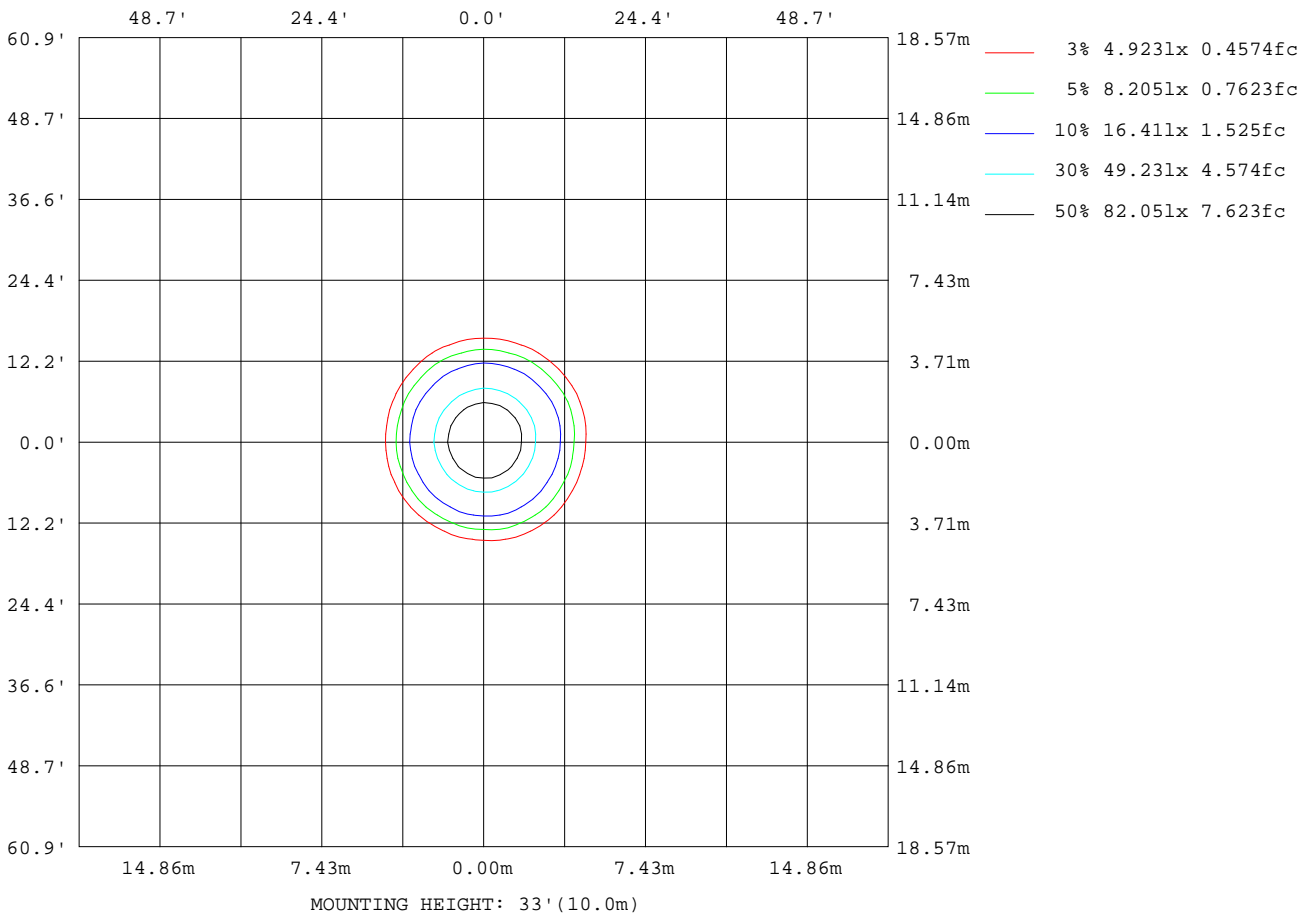
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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ISOLUX DIAGRAM

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LED Avg.L Report

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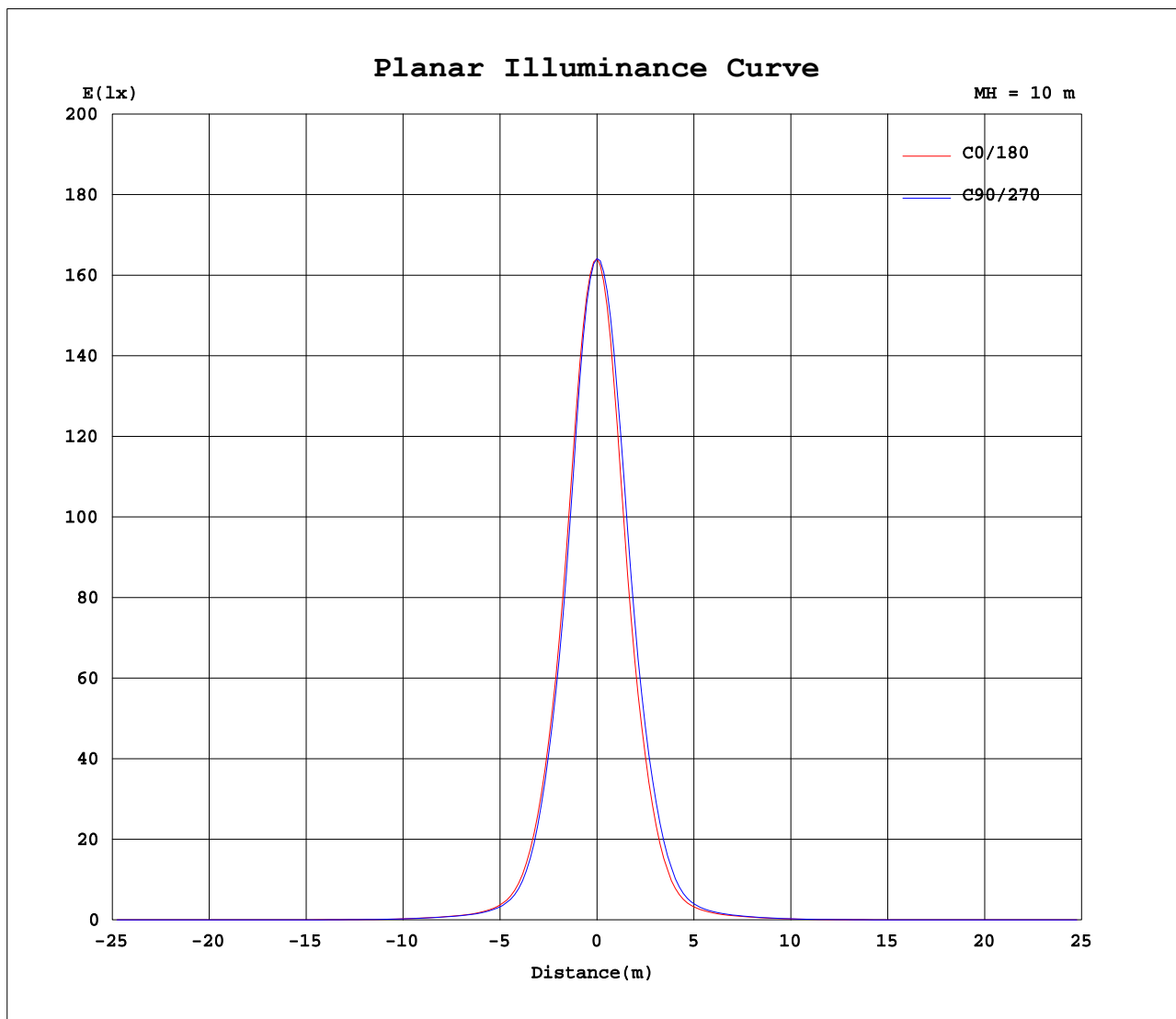
AvgL	cd/m2
L_0~180 (65) av	303
L_0~180 (75) av	20
L_0~180 (85) av	43
L_90~270 (65) av	286
L_90~270 (75) av	19
L_90~270 (85) av	44
L_45 (65) av	308
L_45 (75) av	19
L_45 (85) av	42

Standard: GB/T 29293-2012

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:

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:220.4V I:0.1297A P:27.86W PF:0.9669 Freq:49.90Hz Lamp Flux:2826.88x1 lm		
NAME: T200-25W-940-18	TYPE:Downlight	SERIAL No.:
SPEC.:4000K	DIM.: φ218mm*H126mm	
MFR.: NEKO LIGHTING AG		

Table--1

UNIT: ×10cd

C (DEG) \ γ (DEG)	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270
0	1642	1642	1642	1642	1642	1642	1642	1642	1642	1642	1642	1642	1642	1642	1642	1642	1642	1642	1642
5	1401	1403	1387	1393	1377	1381	1362	1357	1344	1339	1329	1329	1348	1349	1365	1373	1398	1404	1426
10	836	835	812	819	799	804	782	783	759	764	748	759	782	780	812	819	855	860	891
15	415	413	397	402	393	398	383	382	367	369	358	366	379	381	399	404	429	434	455
20	170	167	160	163	158	160	147	148	140	146	139	145	151	149	161	164	179	182	192
25	65.7	65.0	64.9	64.8	63.8	61.2	58.2	56.0	54.8	56.2	56.5	55.9	56.9	58.6	61.4	64.2	69.6	69.8	72.1
30	33.8	33.6	32.9	33.2	32.3	31.9	30.7	30.4	29.6	29.6	29.1	29.6	30.6	30.7	32.2	33.3	35.1	35.5	36.5
35	21.1	21.0	20.5	20.6	20.3	20.1	19.8	19.6	19.1	19.0	18.7	18.9	19.5	19.8	20.6	21.1	21.9	22.1	22.6
40	14.1	14.2	13.9	14.2	13.9	13.8	13.4	13.3	12.9	12.9	12.5	12.5	12.9	13.0	13.5	13.8	14.2	14.2	14.5
45	8.37	8.43	8.36	8.59	8.44	8.25	7.99	7.93	7.63	7.59	7.32	7.26	7.48	7.50	7.85	8.05	8.30	8.15	8.33
50	4.37	4.45	4.44	4.70	4.62	4.43	4.26	4.25	4.10	4.12	3.99	3.85	3.95	4.00	4.18	4.32	4.41	4.22	4.30
55	1.94	2.01	2.01	2.25	2.20	2.01	1.85	1.87	1.78	1.81	1.61	1.59	1.70	1.56	1.75	1.76	1.96	1.72	1.84
60	0.99	0.99	0.99	1.03	1.01	0.99	0.96	0.97	0.96	0.96	0.91	0.88	0.87	0.85	0.88	0.90	0.92	0.87	0.88
65	0.52	0.52	0.51	0.53	0.51	0.50	0.47	0.49	0.47	0.48	0.46	0.45	0.44	0.42	0.43	0.43	0.44	0.42	0.43
70	0.18	0.18	0.18	0.19	0.18	0.17	0.16	0.16	0.15	0.15	0.14	0.14	0.13	0.12	0.13	0.13	0.13	0.13	0.14
75	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
80	0.02	0.01	0.02	0.01	0.02	0.01	0.02	0.01	0.02	0.01	0.02	0.01	0.01	0.02	0.01	0.02	0.01	0.02	0.01
85	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
90	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01

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:220.4V I:0.1297A P:27.86W PF:0.9669 Freq:49.90Hz Lamp Flux:2826.88x1 lm		
NAME: T200-25W-940-18	TYPE:Downlight	SERIAL No.:
SPEC.:4000K	DIM.: φ218mm*H126mm	
MFR.: NEKO LIGHTING AG		

Table--2

UNIT: x10cd

C (DEG) γ (DEG)	285	300	315	330	345															
0	1642	1642	1642	1642	1642															
5	1428	1442	1435	1442	1427															
10	888	909	893	903	875															
15	454	463	451	455	439															
20	191	197	192	195	186															
25	71.9	74.4	73.8	75.0	71.3															
30	36.3	37.0	36.5	36.5	35.3															
35	22.4	22.5	22.1	22.1	21.6															
40	14.4	14.7	14.6	14.7	14.5															
45	8.34	8.57	8.61	8.75	8.61															
50	4.32	4.47	4.50	4.66	4.54															
55	1.83	1.99	2.05	2.24	2.06															
60	0.90	0.96	0.98	1.02	1.01															
65	0.44	0.48	0.50	0.53	0.53															
70	0.14	0.16	0.17	0.19	0.19															
75	0.02	0.02	0.02	0.02	0.02															
80	0.02	0.01	0.02	0.01	0.02															
85	0.02	0.01	0.02	0.01	0.02															
90	0.01	0.01	0.01	0.01	0.01															

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
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 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.288
 Humidity:56%
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 Remarks: