

LED Downlight TAKEO Series T200-52W-940-30



Light Output Ratio:	100.0%	
Luminaire Power:	55.92 W	
SHR Nominal:	0.00	Calculated using the TM5
SHR Maximum:	1.00	fine grid method.

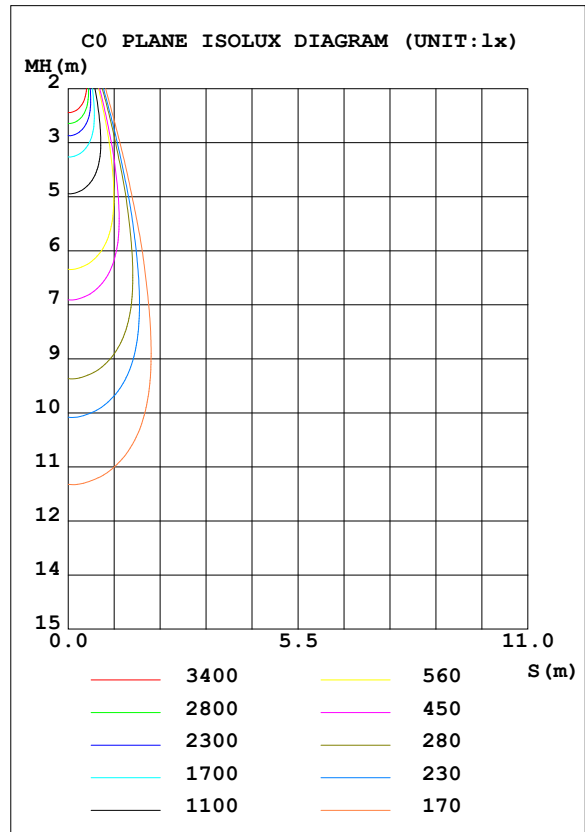
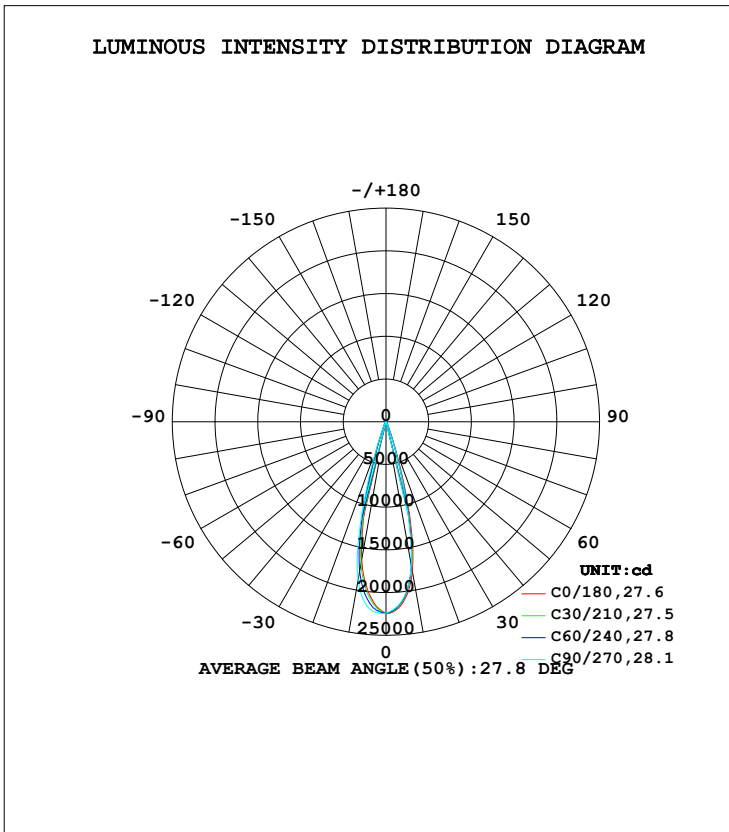
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Men Yongjian
Test Date: 2018-07-04

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:220.3V I:0.2723A P:55.92W PF:0.9682 Freq:49.90Hz Lamp Flux:5046.02x1 lm		
NAME: T200-52W-940-30	TYPE:Downlight	SERIAL No.:
SPEC.:4000K	DIM.: φ218mm*H126mm	
MFR.: NEKO LIGHTING AG		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 90.24 lm/W			
MODEL	CITIZEN-4000K	I _{max} (cd)	22514	S/MH (C0/180)	0.41
NOMINAL POWER (W)	56	LOR (%)	100.0	S/MH (C90/270)	0.44
RATED VOLTAGE (V)	220	TOTAL FLUX (lm)	5046.0	η UP, DN (C0-180)	0.0, 47.8
NOMINAL FLUX (lm)	5046.02	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 52.2
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	1780	1728	1704	1629	1639	1718	1886	1895	0- 10	1914	1914	37.9,37.9
20	264.1	228.9	206.1	200.1	214.3	228.8	298.1	305.3	10- 20	2439	4353	86.3,86.3
30	40.30	40.97	38.34	36.90	38.59	39.62	43.90	41.96	20- 30	421.8	4775	94.6,94.6
40	17.57	18.02	17.23	16.62	16.76	17.06	17.97	17.60	30- 40	164.8	4940	97.9,97.9
50	4.786	5.214	5.001	4.746	4.513	4.465	4.718	4.828	40- 50	77.89	5018	99.4,99.4
60	1.184	1.254	1.167	1.172	1.121	1.071	1.097	1.212	50- 60	21.33	5039	99.9,99.9
70	0.2221	0.2328	0.2058	0.1948	0.1797	0.1696	0.1721	0.2084	60- 70	6.124	5045	100,100
80	0.0272	0.0234	0.0267	0.0237	0.0256	0.0264	0.0264	0.0300	70- 80	0.5966	5046	100,100
90	0.0204	0.0196	0.0210	0.0195	0.0172	0.0166	0.0173	0.0200	80- 90	0.2561	5046	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): 4989.4 lm

%lum = 98.9%
%lamp = 98.9%

Conical surface Flux(120deg): 5039 lm

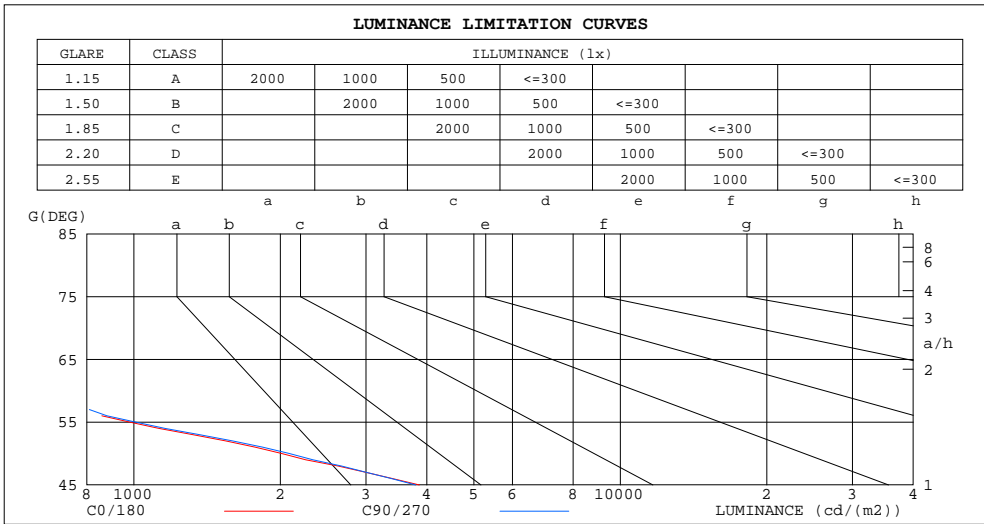
%lum = 99.9%
%lamp = 99.9%

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LUMINANCE LIMITATION CURVES

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LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	76	75
80	42	41
75	32	31
70	175	161
65	406	377
60	639	625
55	979	1007
50	2009	2083
45	3863	3795

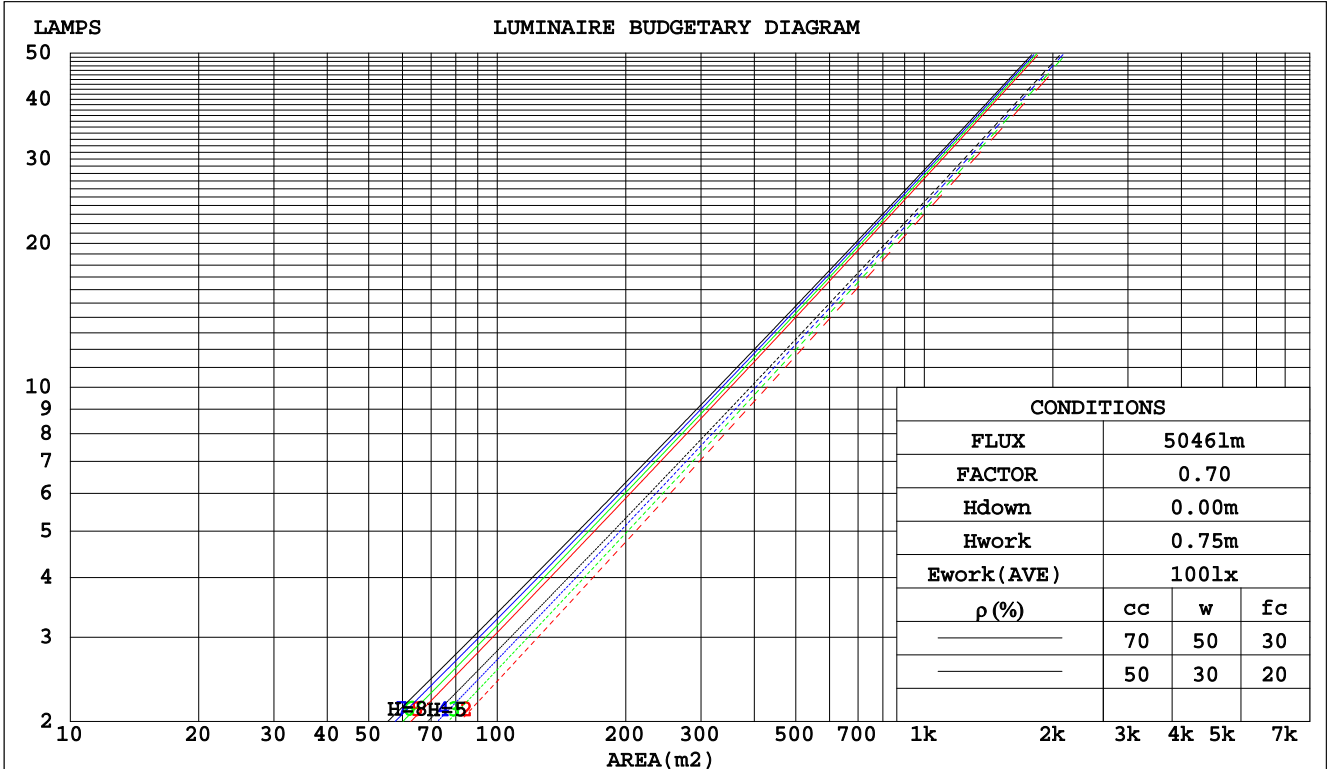
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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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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
pw																0
pfc	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	1.10	1.11	1.09	1.08	1.07	1.06	1.05	1.03	1.02	1.01	.00	.99	.99	.97
2.0	1.08	1.05	1.03	1.06	1.04	1.02	1.03	1.01	.99	1.00	.99	.97	.98	.96	.95	.94
3.0	1.04	1.00	.97	1.02	.99	.97	.00	.97	.95	.98	.95	.94	.95	.94	.92	.91
4.0	.00	.96	.93	.99	.95	.93	.97	.94	.91	.95	.92	.90	.93	.91	.89	.88
5.0	.96	.92	.89	.95	.92	.89	.94	.91	.88	.92	.90	.88	.91	.89	.87	.86
6.0	.93	.89	.86	.93	.89	.86	.91	.88	.86	.90	.87	.85	.89	.86	.85	.83
7.0	.90	.86	.84	.90	.86	.83	.89	.85	.83	.88	.85	.83	.87	.84	.82	.81
8.0	.88	.84	.81	.87	.84	.81	.87	.83	.81	.86	.83	.80	.85	.82	.80	.79
9.0	.86	.82	.79	.85	.81	.79	.84	.81	.79	.84	.81	.78	.83	.80	.78	.77
10.0	.83	.80	.77	.83	.79	.77	.82	.79	.77	.82	.79	.77	.81	.78	.76	.76



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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	.133	.076	.024	.127	.072	.023	.114	.066	.021	.103	.059	.019	.093	.054	.017	
2.0	.123	.068	.021	.118	.065	.020	.108	.060	.019	.098	.055	.017	.090	.051	.016	
3.0	.115	.061	.018	.110	.059	.018	.102	.055	.017	.094	.051	.016	.087	.048	.015	
4.0	.107	.056	.016	.103	.054	.016	.096	.051	.015	.090	.048	.015	.084	.045	.014	
5.0	.101	.051	.015	.098	.050	.015	.092	.048	.014	.086	.045	.013	.081	.043	.013	
6.0	.095	.048	.014	.092	.047	.013	.087	.045	.013	.082	.043	.013	.078	.041	.012	
7.0	.090	.045	.013	.088	.044	.012	.083	.042	.012	.079	.041	.012	.075	.039	.011	
8.0	.086	.042	.012	.084	.041	.012	.080	.040	.011	.076	.039	.011	.073	.037	.011	
9.0	.082	.040	.011	.080	.039	.011	.077	.038	.011	.073	.037	.011	.070	.036	.010	
10.0	.078	.038	.010	.077	.037	.010	.074	.036	.010	.071	.035	.010	.068	.034	.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	.128	.098	.093	.088	.057	.054	.051	.018	.017	.017	
2.0	.150	.133	.118	.128	.114	.102	.088	.079	.071	.051	.046	.042	.016	.015	.014	
3.0	.135	.113	.096	.115	.098	.083	.079	.068	.059	.046	.040	.035	.015	.013	.011	
4.0	.122	.098	.079	.105	.085	.069	.072	.059	.049	.042	.035	.029	.013	.011	.009	
5.0	.111	.085	.066	.095	.074	.058	.066	.052	.041	.038	.030	.024	.012	.010	.008	
6.0	.102	.075	.056	.088	.065	.049	.061	.046	.035	.035	.027	.021	.011	.009	.007	
7.0	.094	.067	.048	.081	.058	.042	.056	.041	.030	.033	.024	.018	.011	.008	.006	
8.0	.088	.060	.041	.076	.052	.036	.052	.037	.026	.030	.022	.015	.010	.007	.005	
9.0	.082	.055	.036	.071	.047	.031	.049	.033	.022	.029	.020	.013	.009	.006	.004	
10.0	.077	.050	.032	.066	.043	.028	.046	.030	.020	.027	.018	.012	.009	.006	.004	

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 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:220.3V I:0.2723A P:55.92W PF:0.9682 Freq:49.90Hz Lamp Flux:5046.02x1 lm		
NAME: T200-52W-940-30	TYPE:Downlight	SERIAL No.:
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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	0.7	1.3	0.9	1.5	1.6	0.6	1.3	0.8	1.4	1.6
3H	0.6	1.2	0.8	1.4	1.6	0.5	1.1	0.8	1.3	1.5
4H	0.5	1.1	0.8	1.3	1.5	0.4	1.0	0.7	1.2	1.4
6H	0.4	1.0	0.7	1.2	1.4	0.4	0.9	0.6	1.1	1.4
8H	0.4	0.9	0.7	1.1	1.4	0.3	0.8	0.6	1.1	1.3
12H	0.3	0.8	0.7	1.1	1.4	0.3	0.8	0.6	1.0	1.3
4H 2H	0.5	1.1	0.8	1.3	1.5	0.5	1.0	0.7	1.2	1.4
3H	0.4	0.9	0.7	1.2	1.4	0.3	0.8	0.6	1.1	1.4
4H	0.3	0.8	0.7	1.1	1.4	0.2	0.7	0.6	1.0	1.3
6H	0.2	0.6	0.6	0.9	1.3	0.1	0.5	0.5	0.9	1.2
8H	0.2	0.5	0.5	0.9	1.2	0.1	0.5	0.5	0.8	1.2
12H	0.1	0.5	0.5	0.8	1.2	0.0	0.4	0.4	0.7	1.1
8H 4H	0.2	0.5	0.5	0.9	1.2	0.1	0.5	0.5	0.8	1.2
6H	0.0	0.4	0.5	0.7	1.2	-0.0	0.3	0.4	0.7	1.1
8H	-0.0	0.3	0.4	0.7	1.1	-0.1	0.2	0.4	0.6	1.0
12H	-0.1	0.2	0.4	0.6	1.1	-0.1	0.1	0.3	0.5	1.0
12H 4H	0.1	0.4	0.5	0.8	1.2	0.0	0.4	0.4	0.7	1.1
6H	-0.0	0.3	0.4	0.7	1.1	-0.1	0.2	0.4	0.6	1.0
8H	-0.1	0.2	0.4	0.6	1.1	-0.1	0.1	0.3	0.5	1.0
Variations with the observer position at spacings:										
S = 1.0H	+ 2.4 / - 8.1					+ 2.4 / - 7.9				
1.5H	+ 3.5 / - 6.5					+ 3.4 / - 6.2				
2.0H	+ 5.6 / - 6.5					+ 5.4 / - 6.4				

CIE Pub.117, 5046 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 5.6)

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UTILIZATION FACTORS TABLE

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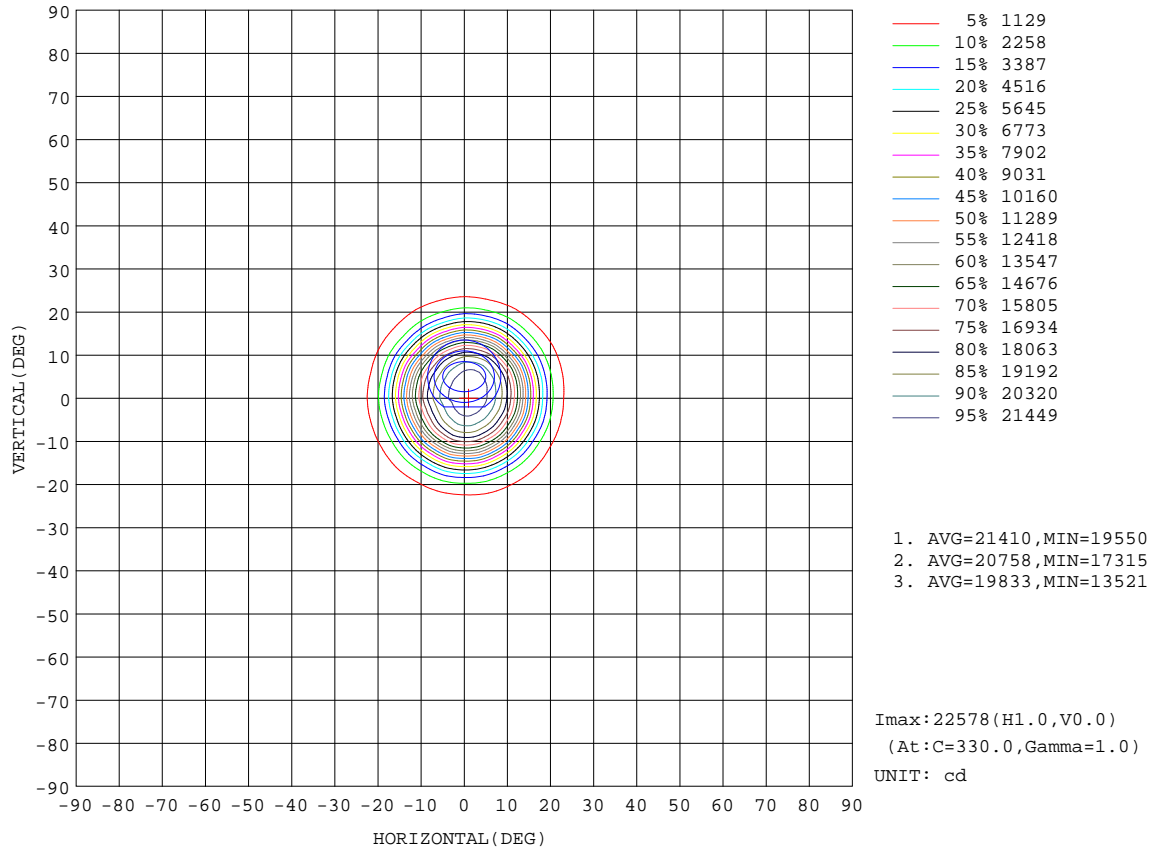
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	90	84	81	90	84	81	89	84	81	77
0.80	97	92	89	97	92	88	96	91	88	85
1.00	101	96	93	100	96	93	99	95	92	88
1.25	105	100	97	104	100	97	102	98	96	92
1.50	107	103	100	106	102	100	104	101	98	94
2.00	110	106	103	108	105	102	106	103	101	96
2.50	111	108	105	110	106	104	107	104	102	96
3.00	112	109	107	111	108	106	107	105	104	97
4.00	114	112	110	112	110	108	109	107	106	99
5.00	116	114	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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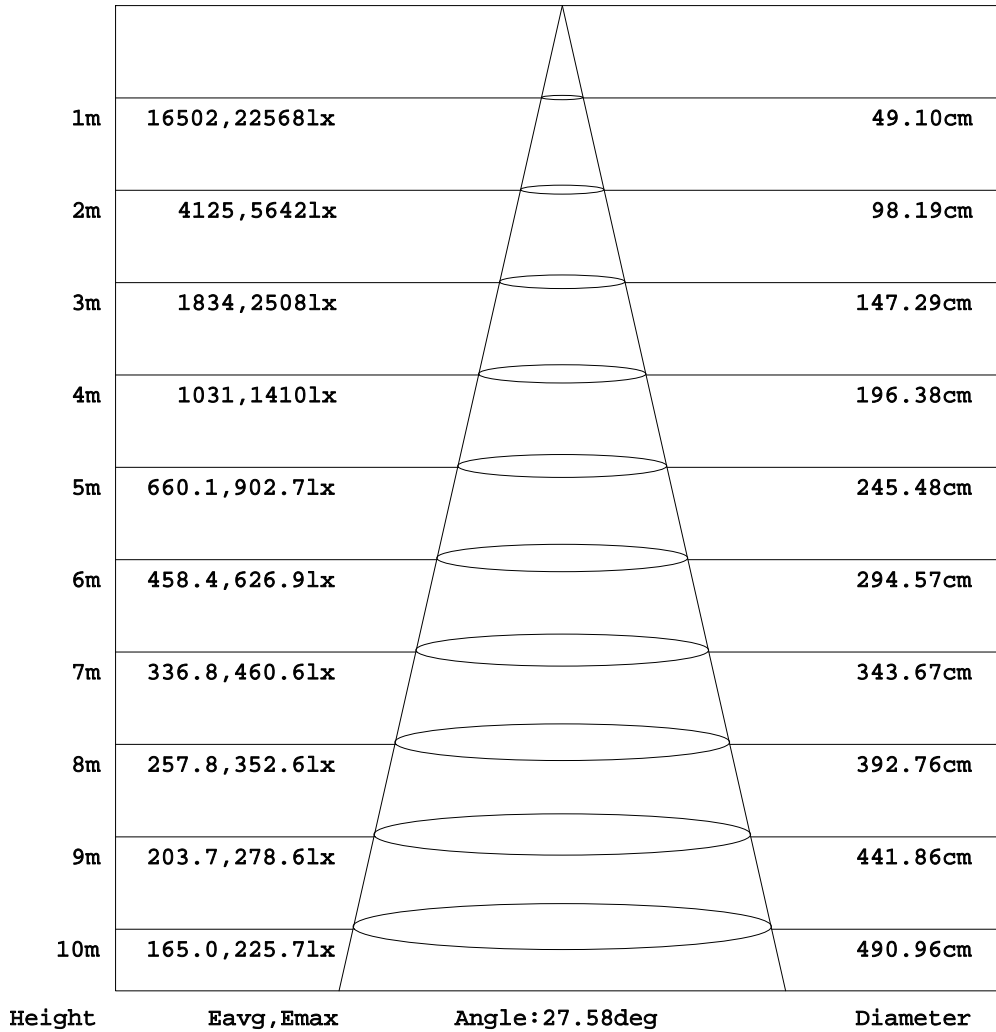
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AAI Figure

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Flux out:3223 lm



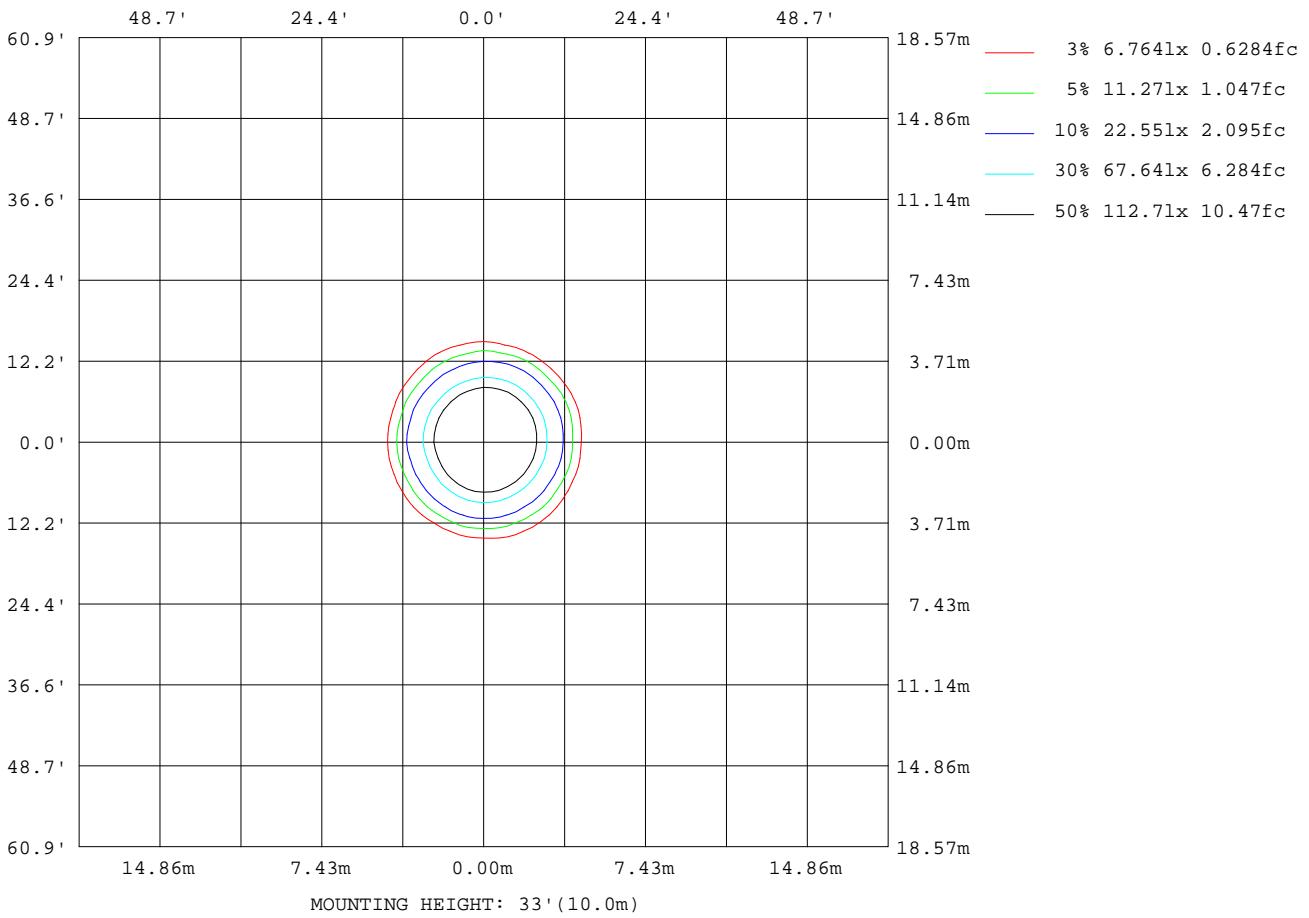
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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ISOLUX DIAGRAM

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LED Avg.L Report

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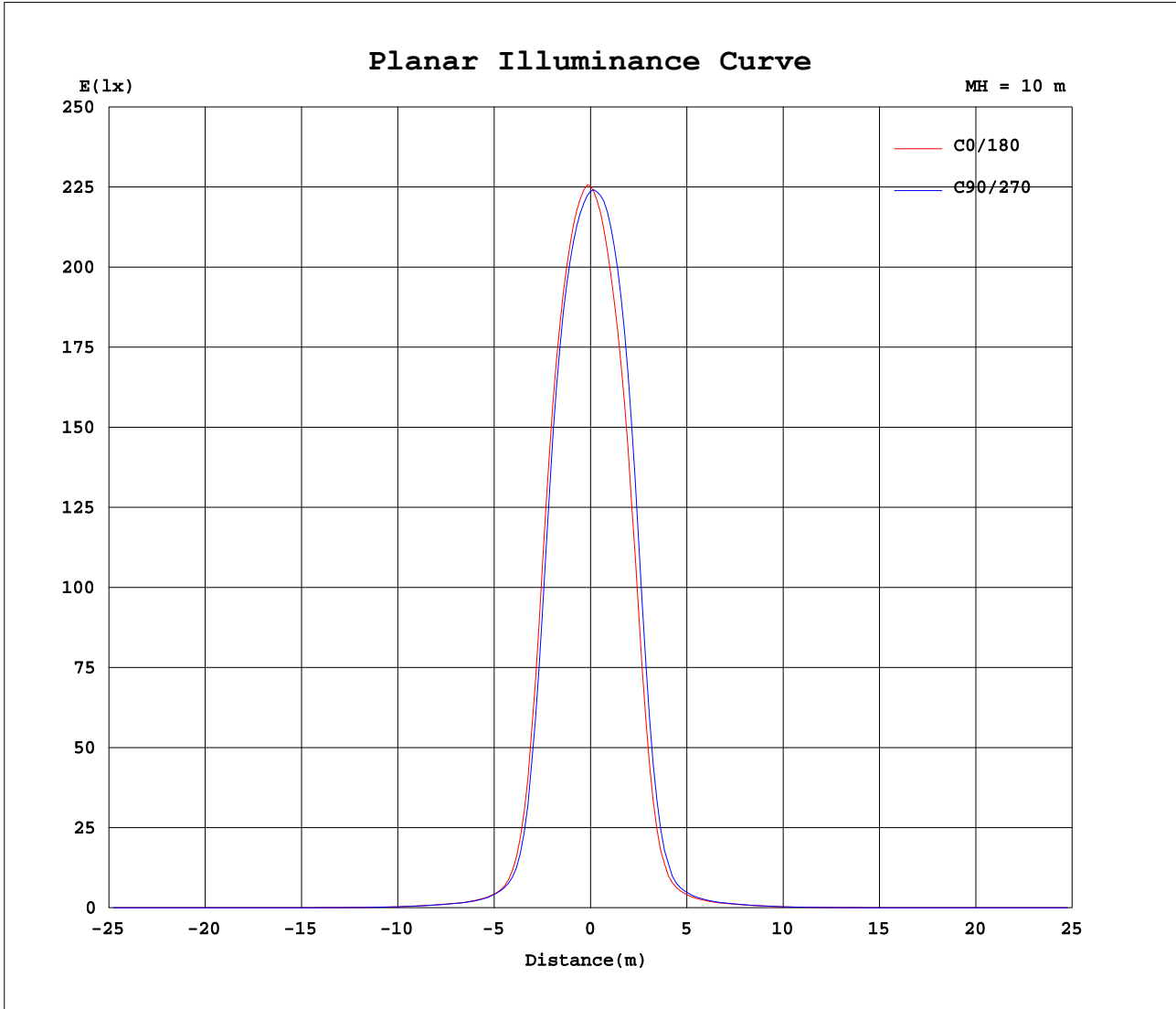
AvgL	cd/m2
L_0~180 (65) av	386
L_0~180 (75) av	30
L_0~180 (85) av	75
L_90~270 (65) av	362
L_90~270 (75) av	30
L_90~270 (85) av	76
L_45 (65) av	385
L_45 (75) av	29
L_45 (85) av	73

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:220.3V I:0.2723A P:55.92W PF:0.9682 Freq:49.90Hz Lamp Flux:5046.02x1 lm		
NAME: T200-52W-940-30	TYPE:Downlight	SERIAL No.:
SPEC.:4000K	DIM.: φ218mm*H126mm	
MFR.: NEKO LIGHTING AG		

Table--1

UNIT: x10cd

C (DEG) γ (DEG)	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270
0	2240	2240	2240	2240	2240	2240	2240	2240	2240	2240	2240	2240	2240	2240	2240	2240	2240	2240	2240
5	2144	2136	2123	2122	2116	2116	2109	2098	2077	2065	2051	2051	2062	2069	2089	2107	2138	2165	2200
10	1780	1765	1731	1728	1713	1721	1704	1694	1652	1629	1596	1603	1639	1655	1693	1718	1780	1824	1886
15	969	951	890	883	847	854	826	831	789	786	762	782	828	843	889	897	961	992	1064
20	264	254	231	229	217	218	206	209	198	200	192	199	214	213	229	229	254	265	298
25	74.8	73.7	75.6	79.7	79.2	77.6	72.5	70.2	68.2	70.1	69.4	69.5	70.8	70.1	75.2	79.4	84.8	84.8	84.4
30	40.3	40.1	40.3	41.0	39.7	39.3	38.3	38.1	36.9	36.9	36.4	37.4	38.6	37.9	39.0	39.6	41.9	42.7	43.9
35	25.8	26.1	26.0	26.2	25.8	25.6	25.3	25.4	24.7	24.4	23.5	24.1	25.0	25.1	25.6	25.8	26.6	26.7	27.5
40	17.6	17.9	17.8	18.0	17.8	17.5	17.2	17.2	16.9	16.6	15.6	16.0	16.8	16.8	17.2	17.1	17.5	17.2	18.0
45	10.1	10.4	10.3	10.4	10.2	10.2	10.0	10.0	9.76	9.57	8.99	9.08	9.41	9.30	9.53	9.37	9.50	9.49	9.97
50	4.79	4.96	5.01	5.21	5.16	5.16	5.00	5.02	4.81	4.75	4.49	4.45	4.51	4.40	4.47	4.47	4.60	4.56	4.72
55	2.08	2.16	2.21	2.32	2.29	2.27	2.16	2.15	2.08	2.07	1.96	1.92	1.94	1.85	1.88	1.87	1.93	1.89	1.96
60	1.18	1.20	1.21	1.25	1.24	1.22	1.17	1.17	1.16	1.17	1.14	1.12	1.12	1.07	1.08	1.07	1.09	1.07	1.10
65	0.64	0.64	0.64	0.65	0.64	0.62	0.59	0.60	0.59	0.60	0.58	0.57	0.58	0.55	0.55	0.55	0.55	0.53	0.55
70	0.22	0.23	0.22	0.23	0.22	0.22	0.21	0.21	0.19	0.19	0.18	0.17	0.18	0.17	0.17	0.17	0.17	0.16	0.17
75	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
80	0.03	0.02	0.03	0.02	0.03	0.02	0.03	0.02	0.03	0.02	0.03	0.02	0.03	0.03	0.02	0.03	0.02	0.03	0.03
85	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	0.03	0.02	0.02	0.02	0.03	0.03
90	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

C Range: 0 - 360DEG
 C Interval: 15.0DEG
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 Operators:Men Yongjian
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γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.288
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 Test Distance:5.850m [K=1.0000]
 Remarks:

