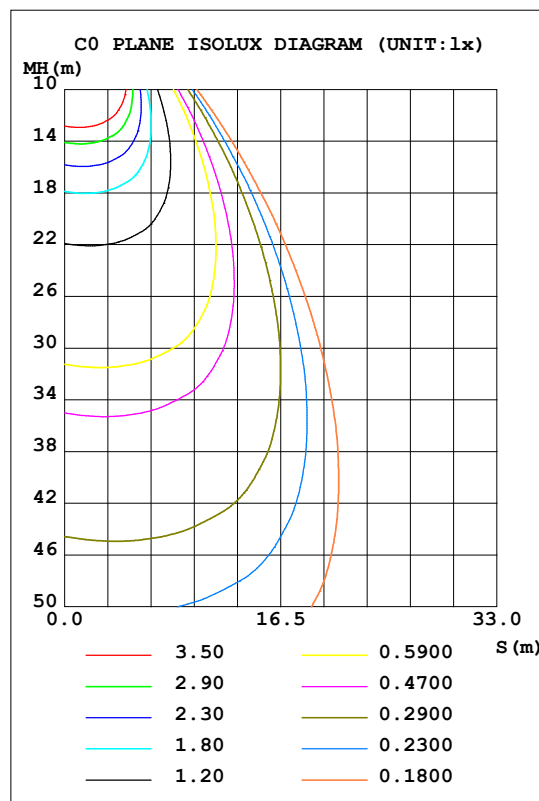
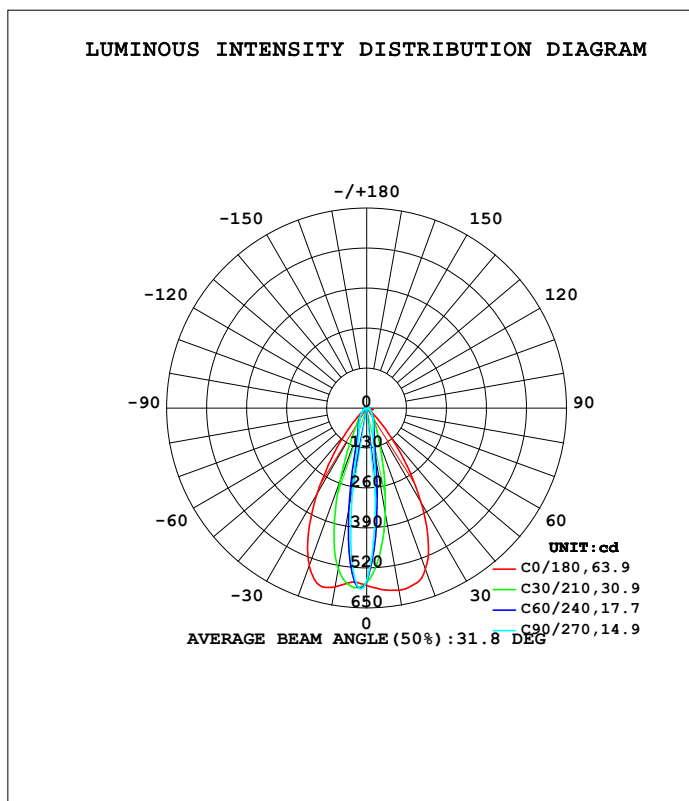


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:12.00V I:1.207A P:14.48W PF:1.000 Freq:0Hz Lamp Flux:278.729x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:φ20mm	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 19.24 lm/W
MODEL	MDW159D1	I <sub>max</sub> (cd)	608.3	S/MH (C0/180)	0.92	
NOMINAL POWER (W)	14.5	LOR (%)	100.0	S/MH (C90/270)	0.32	
RATED VOLTAGE (V)	12	TOTAL FLUX (lm)	278.73	η UP, DN (C0-180)	1.5, 42.4	
NOMINAL FLUX (lm)	278.729	CIE CLASS	DIRECT	η UP, DN (C180-360)	1.8, 54.3	
LAMPS INSIDE	1	η up (%)	3.3	CIBSE SHR NOM	0.00	
TEST VOLTAGE (V)	12	η down (%)	96.7	CIBSE SHR MAX	1.00	



C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature: 25DEG  
Operators: Qin Meng  
Test Date: 2024-02-26

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System: SALED GO-2000B\_V1 SYSTEM V2.0.362  
Humidity: 65.0%  
Test Distance: 8.540m [K=1.0000]  
Remarks:

**ZONAL FLUX DIAGRAM**

ZONAL FLUX DIAGRAM:

$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	$\Phi$ zone	$\Phi$ total	%lum,lamp
10	601.0	241.7	136.5	232.6	590.0	422.9	263.7	417.7	0- 10	42.88	42.88	15.4,15.4
20	557.9	79.23	64.91	79.26	546.4	112.8	75.50	105.2	10- 20	72.00	114.9	41.2,41.2
30	355.1	46.83	41.82	46.49	325.0	52.93	47.12	52.23	20- 30	63.69	178.6	64.1,64.1
40	124.1	27.45	26.76	27.06	108.0	30.70	30.36	30.28	30- 40	40.51	219.1	78.6,78.6
50	22.40	15.69	16.46	15.35	20.53	17.13	19.08	17.26	40- 50	20.45	239.5	85.9,85.9
60	11.53	9.220	8.807	8.752	11.31	9.674	11.06	10.31	50- 60	11.75	251.3	90.1,90.1
70	9.553	6.139	5.131	5.863	8.928	6.317	6.045	6.546	60- 70	8.004	259.3	93,93
80	9.956	3.790	2.949	3.413	6.933	4.157	3.922	4.419	70- 80	6.419	265.7	95.3,95.3
90	3.825	2.063	1.407	1.993	0	2.148	1.680	2.336	80- 90	3.716	269.4	96.7,96.7
100	0.5168	2.008	1.304	1.958	0.0002	2.013	1.282	1.873	90-100	3.503	272.9	97.9,97.9
110	0	0.9736	0.8600	0.9231	0	1.270	1.074	1.223	100-110	4.895	277.8	99.7,99.7
120	0	0.2020	0.5381	0.2938	0.0231	0.5474	0.6017	0.5014	110-120	0.5065	278.3	99.9,99.9
130	0	0.0276	0.2532	0.0046	0.0781	0.1473	0.3212	0.1013	120-130	0.1813	278.5	99.9,99.9
140	0.0136	0.0597	0.0416	0.0598	0.1150	0.0919	0.1301	0.0460	130-140	0.0644	278.6	99.9,99.9
150	0.0367	0.0965	0.0597	0.1057	0.1472	0.1213	0.1743	0.1057	140-150	0.0527	278.6	100,100
160	0.0643	0.1333	0.1130	0.1302	0.1650	0.1706	0.1696	0.1929	150-160	0.0573	278.7	100,100
170	0.1103	0.1360	0.1217	0.1424	0.1975	0.1563	0.1609	0.1884	160-170	0.0413	278.7	100,100
180	0.1792	0.1379	0.1195	0.1517	0.1838	0.1333	0.1333	0.1609	170-180	0.0142	278.7	100,100
DEG	LUMINOUS INTENSITY:cd								UNIT:lm			

Conical surface Flux(90deg): 231.07 lm

%lum = 82.9%  
%lamp = 82.9%

Conical surface Flux(120deg): 251.27 lm

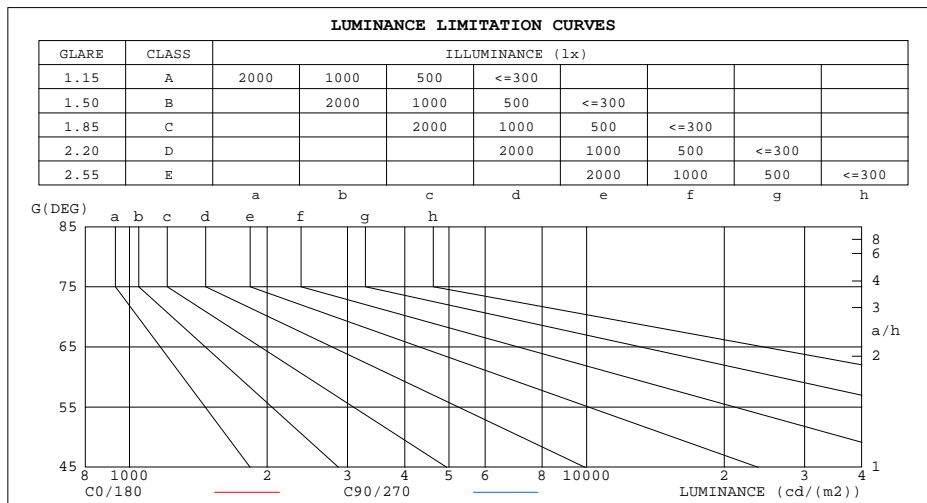
%lum = 90.1%  
%lamp = 90.1%

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25DEG  
Operators:Qin Meng  
Test Date:2024-02-26

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:SALED GO-2000B\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:8.540m [K=1.0000]  
Remarks:

**LUMINANCE LIMITATION CURVES**

Test:U:12.00V I:1.207A P:14.48W PF:1.000 Freq:0Hz Lamp Flux:278.729x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:φ20mm	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	259296	73723
80	191114	56607
75	234788	54617
70	93106	50007
65	78324	51037
60	76845	58717
55	83583	70668
50	116141	85338
45	257830	99932

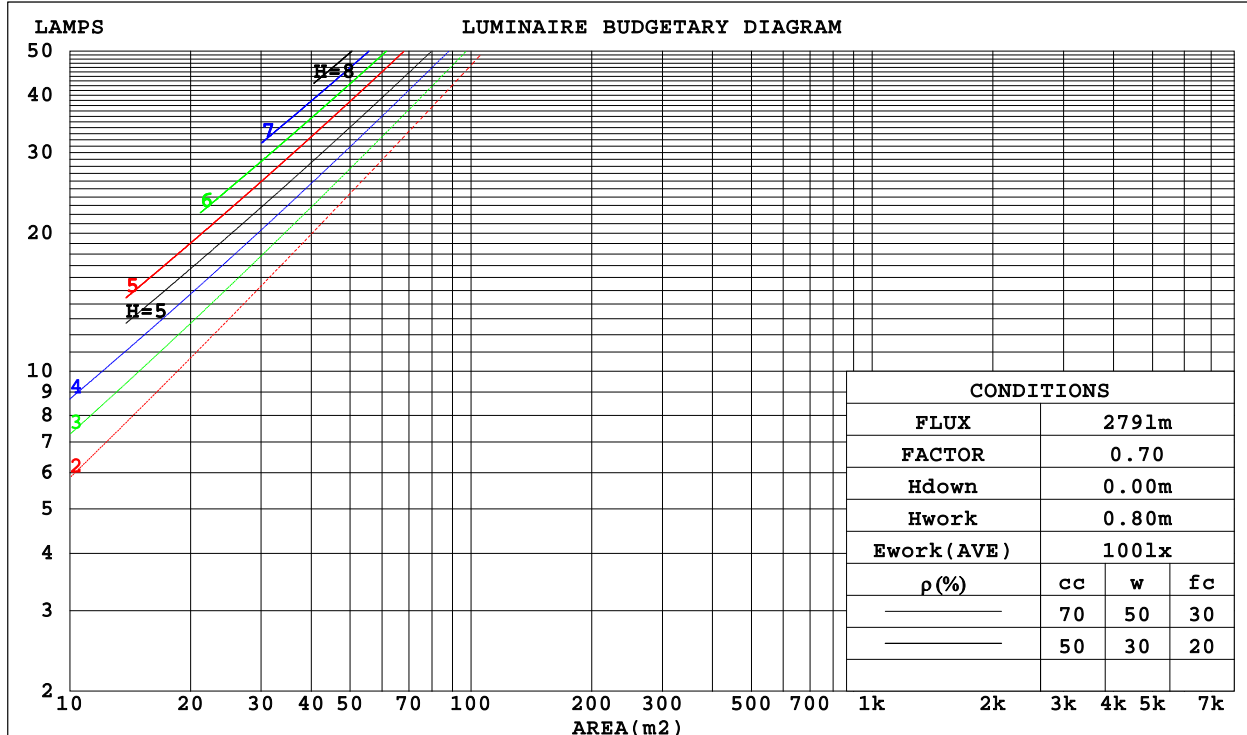
C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25DEG  
 Operators: Qin Meng  
 Test Date: 2024-02-26

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: SALED GO-2000B\_V1 SYSTEM V2.0.362  
 Humidity: 65.0%  
 Test Distance: 8.540m [K=1.0000]  
 Remarks:

**CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM**

Test:U:12.00V I:1.207A P:14.48W PF:1.000 Freq:0Hz Lamp Flux:278.729x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:φ20mm	Shielding Angle:

ρ <sub>cc</sub>	80%			70%			50%			30%			10%			0
ρ <sub>w</sub>	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ <sub>fc</sub>	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Coefficients of Utilization(CU)									
0.0	1.18	1.18	1.18	1.15	1.15	1.15	1.09	1.09	1.09	1.04	1.04	1.04	.99	.99	.99	.97
1.0	1.08	1.05	1.03	1.06	1.03	1.01	1.01	.99	.97	.97	.95	.93	.93	.91	.90	.88
2.0	.00	.95	.91	.98	.93	.90	.94	.90	.87	.90	.87	.85	.87	.85	.83	.81
3.0	.92	.87	.82	.90	.85	.81	.87	.83	.80	.84	.81	.78	.82	.79	.76	.74
4.0	.86	.80	.75	.84	.79	.74	.82	.77	.73	.79	.75	.72	.77	.74	.71	.69
5.0	.80	.74	.69	.79	.73	.69	.77	.72	.68	.75	.70	.67	.73	.69	.66	.64
6.0	.75	.69	.64	.74	.68	.64	.72	.67	.63	.71	.66	.63	.69	.65	.62	.60
7.0	.71	.65	.60	.70	.64	.60	.69	.63	.59	.67	.62	.59	.66	.62	.58	.57
8.0	.67	.61	.57	.66	.61	.56	.65	.60	.56	.64	.59	.56	.62	.58	.55	.54
9.0	.64	.58	.54	.63	.57	.53	.62	.57	.53	.61	.56	.53	.60	.55	.52	.51
10.0	.61	.55	.51	.60	.54	.51	.59	.54	.50	.58	.53	.50	.57	.53	.50	.48



C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25DEG  
 Operators:Qin Meng  
 Test Date:2024-02-26

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:SALED GO-2000B\_V1 SYSTEM V2.0.362  
 Humidity:65.0%  
 Test Distance:8.540m [K=1.0000]  
 Remarks:

**WEC AND CCEC**

Test:U:12.00V I:1.207A P:14.48W PF:1.000 Freq:0Hz Lamp Flux:278.729x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:φ20mm	Shielding Angle:

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	.212	.121	.038	.205	.117	.037	.190	.109	.035	.177	.102	.033	.164	.095	.031	
2.0	.197	.108	.033	.190	.105	.032	.177	.099	.031	.166	.093	.029	.155	.088	.028	
3.0	.183	.097	.029	.177	.095	.029	.166	.090	.027	.156	.085	.026	.146	.081	.025	
4.0	.170	.089	.026	.165	.087	.026	.156	.083	.025	.147	.079	.024	.139	.075	.023	
5.0	.160	.081	.024	.155	.080	.023	.147	.076	.023	.139	.073	.022	.132	.070	.021	
6.0	.150	.075	.022	.146	.074	.021	.139	.071	.021	.132	.068	.020	.125	.066	.020	
7.0	.142	.070	.020	.138	.069	.020	.132	.067	.019	.125	.064	.019	.119	.062	.018	
8.0	.134	.066	.018	.131	.065	.018	.125	.062	.018	.119	.060	.017	.114	.059	.017	
9.0	.127	.062	.017	.125	.061	.017	.119	.059	.017	.114	.057	.016	.109	.055	.016	
10.0	.121	.058	.016	.119	.057	.016	.114	.056	.016	.109	.054	.015	.105	.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	.216	.216	.216	.185	.185	.185	.126	.126	.126	.072	.072	.072	.023	.023	.023	
1.0	.199	.183	.168	.170	.157	.144	.117	.108	.100	.067	.062	.058	.021	.020	.019	
2.0	.185	.158	.135	.159	.136	.117	.109	.094	.082	.063	.055	.048	.020	.018	.016	
3.0	.174	.140	.113	.149	.121	.098	.102	.084	.068	.059	.049	.040	.019	.016	.013	
4.0	.164	.125	.096	.140	.108	.084	.097	.075	.059	.056	.044	.035	.018	.014	.011	
5.0	.155	.114	.084	.133	.099	.073	.092	.069	.052	.053	.040	.031	.017	.013	.010	
6.0	.147	.105	.075	.126	.091	.065	.087	.064	.046	.051	.037	.027	.016	.012	.009	
7.0	.140	.097	.067	.121	.084	.059	.083	.059	.042	.048	.035	.025	.016	.011	.008	
8.0	.134	.091	.062	.115	.079	.054	.080	.056	.038	.046	.033	.023	.015	.011	.008	
9.0	.129	.086	.057	.111	.075	.050	.077	.052	.035	.045	.031	.021	.014	.010	.007	
10.0	.124	.082	.053	.107	.071	.047	.074	.050	.033	.043	.029	.020	.014	.010	.007	

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25DEG  
 Operators:Qin Meng  
 Test Date:2024-02-26

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:SALED GO-2000B\_V1 SYSTEM V2.0.362  
 Humidity:65.0%  
 Test Distance:8.540m [K=1.0000]  
 Remarks:

**UGR(Unified Glare Rating) Table**

Test:U:12.00V I:1.207A P:14.48W PF:1.000 Freq:0Hz Lamp Flux:278.729x1 lm										
NAME:			TYPE:			WEIGHT:				
SPEC.:			DIM.:			SERIAL No.:				
MFR.:			SUR.:φ20mm			Shielding Angle:				
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	31.1	32.1	31.4	32.3	32.6	27.7	28.7	28.0	28.9	29.2
3H	31.8	32.8	32.2	33.0	33.3	28.6	29.5	28.9	29.8	30.1
4H	33.7	34.5	34.0	34.8	35.1	29.2	30.1	29.5	30.3	30.6
6H	35.7	36.5	36.0	36.8	37.1	29.7	30.6	30.1	30.9	31.2
8H	36.0	36.8	36.4	37.1	37.5	30.0	30.8	30.3	31.1	31.4
12H	36.5	37.3	36.9	37.6	37.9	30.2	31.0	30.6	31.3	31.7
4H 2H	31.1	32.0	31.4	32.2	32.5	28.1	29.0	28.4	29.2	29.5
3H	32.1	32.8	32.4	33.2	33.5	29.3	30.1	29.7	30.4	30.8
4H	34.0	34.7	34.4	35.0	35.4	30.1	30.8	30.5	31.1	31.5
6H	36.0	36.6	36.5	37.0	37.4	30.8	31.4	31.3	31.8	32.2
8H	36.5	37.1	37.0	37.5	38.0	31.2	31.7	31.6	32.1	32.6
12H	37.2	37.7	37.6	38.1	38.6	31.5	32.0	32.0	32.5	32.9
8H 4H	34.0	34.6	34.5	35.0	35.4	30.5	31.1	31.0	31.5	31.9
6H	36.1	36.6	36.6	37.0	37.5	31.5	31.9	32.0	32.4	32.9
8H	36.8	37.2	37.3	37.7	38.2	32.0	32.4	32.5	32.9	33.4
12H	37.6	37.9	38.1	38.4	39.0	32.5	32.8	33.0	33.3	33.9
12H 4H	34.0	34.5	34.5	35.0	35.4	30.6	31.1	31.1	31.6	32.0
6H	36.1	36.5	36.6	37.0	37.5	31.7	32.1	32.2	32.6	33.1
8H	36.8	37.1	37.3	37.6	38.2	32.2	32.6	32.7	33.1	33.6
Variations with the observer position at spacings:										
S = 1.0H	+ 2.0 / - 0.8					+ 0.3 / - 0.3				
1.5H	+ 3.9 / - 1.1					+ 0.1 / - 0.2				
2.0H	+ 1.8 / - 0.9					+ 0.4 / - 0.4				

CIE Pub.117, 278.7 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -4.4)

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25DEG  
Operators:Qin Meng  
Test Date:2024-02-26

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:SALED GO-2000B\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:8.540m [K=1.0000]  
Remarks:

**UTILIZATION FACTORS TABLE**

Test:U:12.00V I:1.207A P:14.48W PF:1.000 Freq:0Hz Lamp Flux:278.729x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:φ20mm	Shielding Angle:

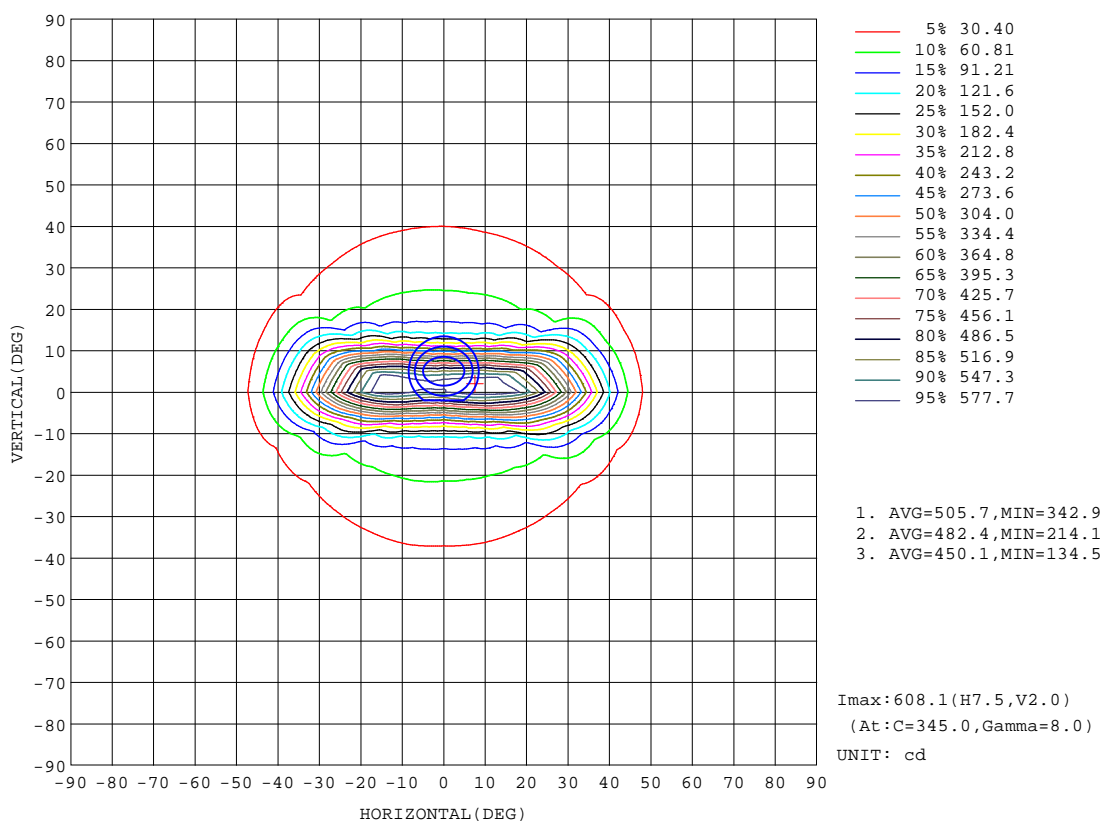
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) k(RI) x RCR = 5									
k = 0.60	78	70	66	78	70	66	77	70	66	61
0.80	86	79	74	85	78	74	84	78	73	69
1.00	92	84	80	91	84	79	89	84	79	74
1.25	96	89	85	95	89	84	93	87	83	78
1.50	100	93	89	98	92	88	95	91	87	81
2.00	103	98	93	102	96	92	98	94	91	84
2.50	106	100	96	104	99	95	100	96	93	86
3.00	108	103	99	106	101	98	102	98	96	88
4.00	110	106	103	108	105	102	104	101	99	90
5.00	112	109	106	109	107	104	105	103	101	92
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNOM = 1.25			

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25DEG  
 Operators:Qin Meng  
 Test Date:2024-02-26

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:SALED GO-2000B\_V1 SYSTEM V2.0.362  
 Humidity:65.0%  
 Test Distance:8.540m [K=1.0000]  
 Remarks:

**ISOCANDELA DIAGRAM**

Test:U:12.00V I:1.207A P:14.48W PF:1.000 Freq:0Hz Lamp Flux:278.729x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:φ20mm	Shielding Angle:



C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25DEG  
 Operators:Qin Meng  
 Test Date:2024-02-26

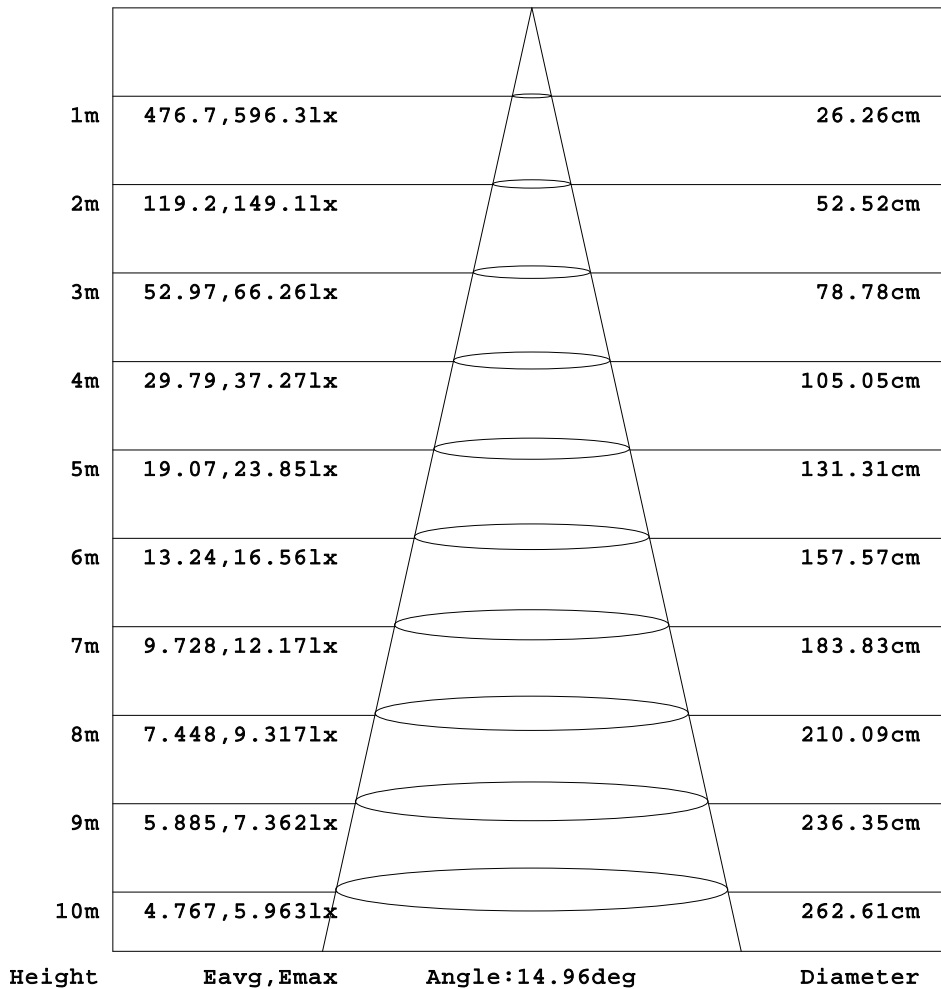
γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:SALED GO-2000B\_V1 SYSTEM V2.0.362  
 Humidity:65.0%  
 Test Distance:8.540m [K=1.0000]  
 Remarks:



**AAI Figure**

Test:U:12.00V I:1.207A P:14.48W PF:1.000 Freq:0Hz Lamp Flux:278.729x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:φ20mm	Shielding Angle:

Flux out:29.58 lm



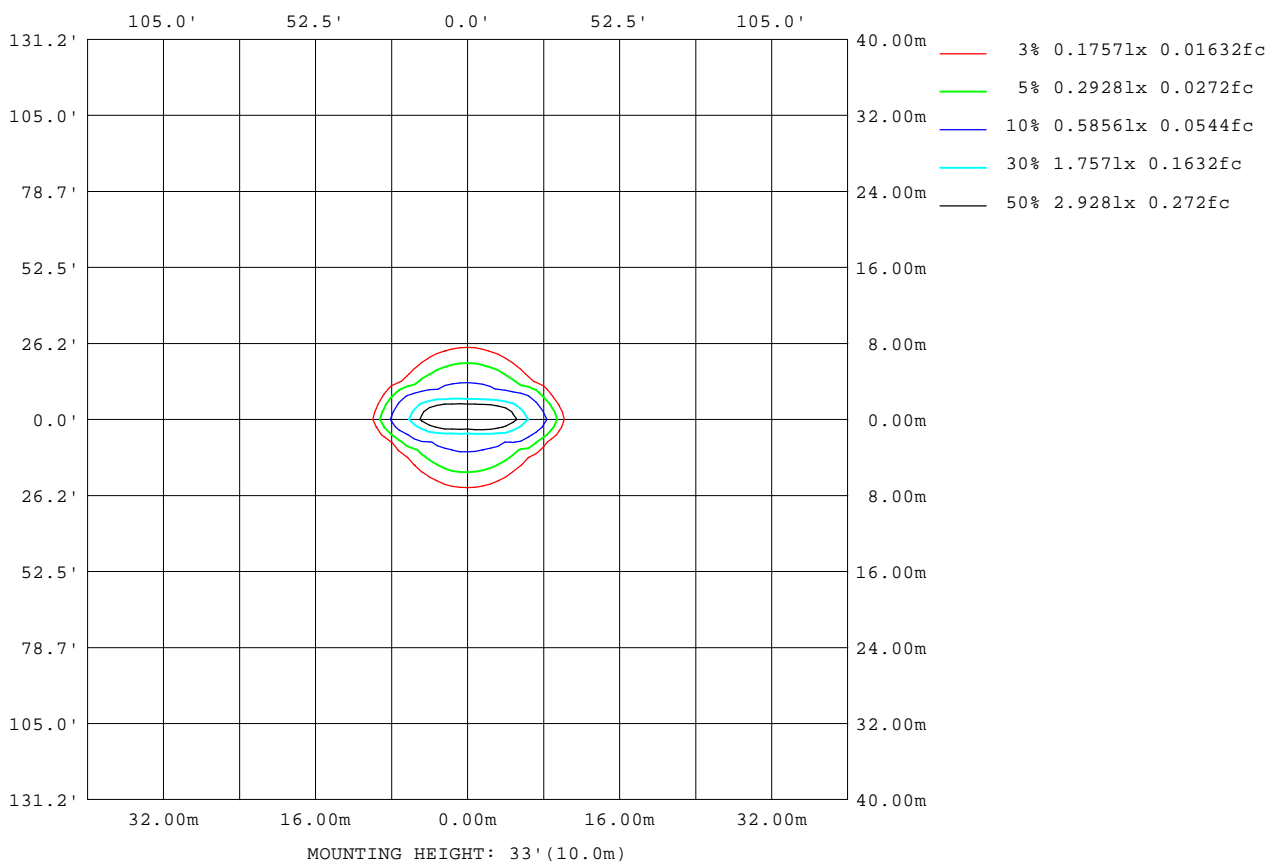
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature: 25DEG  
Operators: Qin Meng  
Test Date: 2024-02-26

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System: SALED GO-2000B\_V1 SYSTEM V2.0.362  
Humidity: 65.0%  
Test Distance: 8.540m [K=1.0000]  
Remarks:

**ISOLUX DIAGRAM**

Test:U:12.00V I:1.207A P:14.48W PF:1.000 Freq:0Hz Lamp Flux:278.729x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:φ20mm	Shielding Angle:



C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25DEG  
 Operators: Qin Meng  
 Test Date: 2024-02-26

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: SALED GO-2000B\_V1 SYSTEM V2.0.362  
 Humidity: 65.0%  
 Test Distance: 8.540m [K=1.0000]  
 Remarks:

LED Avg.L Report

Test:U:12.00V I:1.207A P:14.48W PF:1.000 Freq:0Hz Lamp Flux:278.729x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:φ20mm	Shielding Angle:

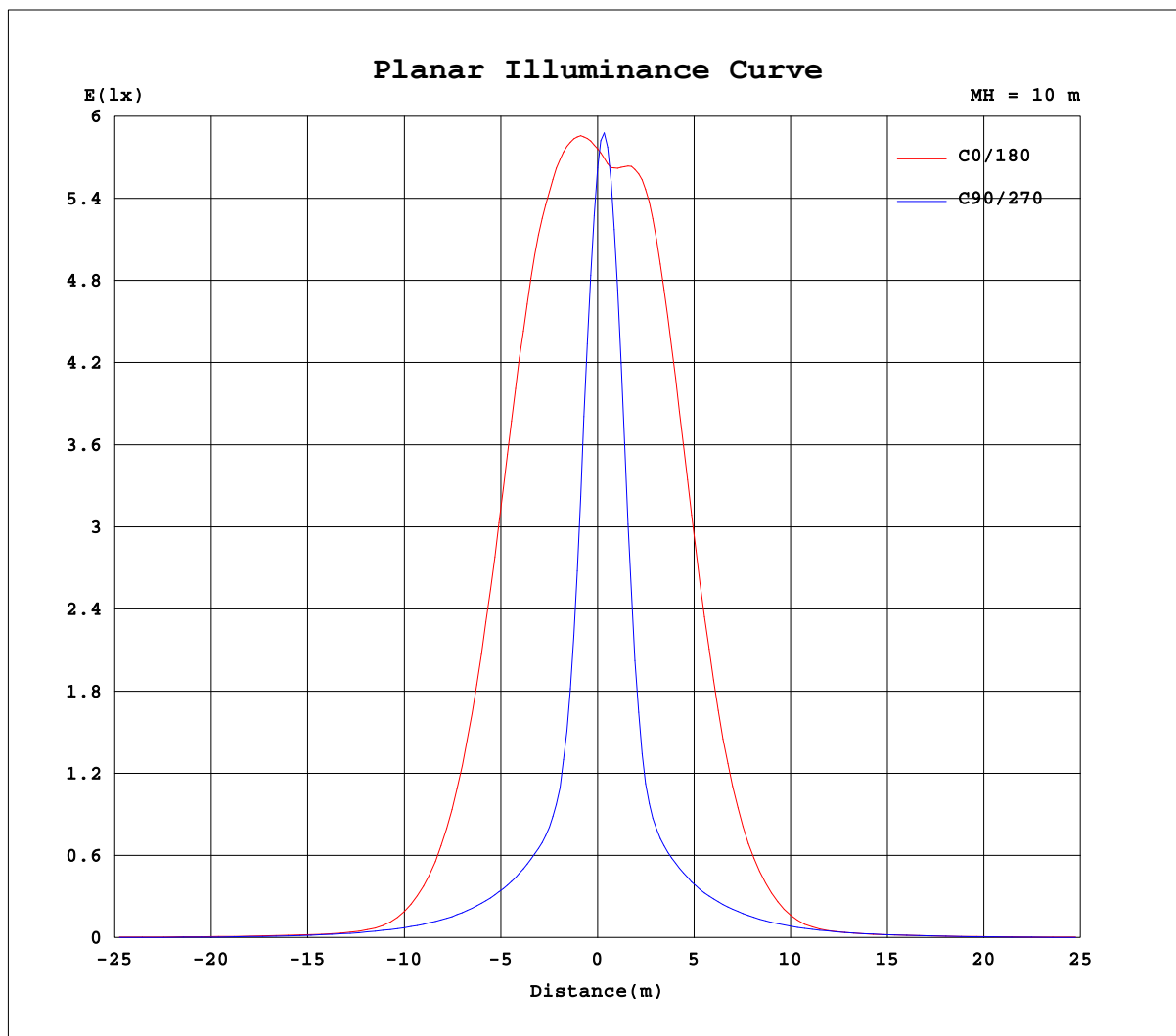
AvgL	cd/m2
L_0~180 (65) av	77358
L_0~180 (75) av	167637
L_0~180 (85) av	224188
L_90~270 (65) av	57525
L_90~270 (75) av	58351
L_90~270 (85) av	86549
L_45 (65) av	59489
L_45 (75) av	67858
L_45 (85) av	109822

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25DEG  
Operators:Qin Meng  
Test Date:2024-02-26

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:SALED GO-2000B\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:8.540m [K=1.0000]  
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25DEG  
 Operators: Qin Meng  
 Test Date: 2024-02-26

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: SALED GO-2000B\_V1 SYSTEM V2.0.362  
 Humidity: 65.0%  
 Test Distance: 8.540m [K=1.0000]  
 Remarks:

**LUMINOUS DISTRIBUTION INTENSITY DATA**

Test:U:12.00V I:1.207A P:14.48W PF:1.000 Freq:0Hz Lamp Flux:278.729x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:φ20mm	Shielding Angle:

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	576	571	568	568	564	566	562	566	563	566	564	567	576	571	568	568	564	566	562
5	593	543	482	426	373	348	326	344	364	413	462	519	569	586	582	561	541	521	523
10	601	494	350	242	171	144	137	143	167	233	338	477	590	604	532	423	338	277	264
15	594	415	218	123	93.6	86.1	82.9	86.3	93.2	118	207	403	596	587	413	238	147	114	109
20	558	326	124	79.2	69.8	66.4	64.9	67.2	70.2	79.3	115	306	546	501	255	113	84.7	78.0	75.5
25	475	232	77.7	60.3	54.7	52.6	51.8	53.5	55.6	60.0	73.5	205	450	371	136	70.9	65.0	61.3	59.3
30	355	149	54.1	46.8	43.5	42.2	41.8	42.9	43.5	46.5	52.3	124	325	237	73.4	52.9	50.3	47.9	47.1
35	229	86.6	39.2	35.7	34.2	33.8	33.6	34.3	34.3	35.9	38.6	70.1	201	134	46.9	41.1	39.3	38.3	38.0
40	124	46.9	28.9	27.5	27.0	27.1	26.8	27.3	27.1	27.1	27.9	38.8	108	66.3	32.2	30.7	30.7	30.4	30.4
45	54.7	26.3	21.0	20.6	20.7	21.3	21.2	21.1	20.6	20.3	20.4	23.3	46.7	32.1	23.2	22.8	23.9	24.3	24.2
50	22.4	16.8	15.8	15.7	15.9	16.2	16.5	16.1	15.6	15.3	15.1	15.5	20.5	17.7	16.9	17.1	18.0	18.7	19.1
55	14.4	12.8	12.0	12.1	12.2	12.4	12.2	12.2	11.8	11.6	11.2	12.2	14.3	13.0	12.4	13.0	13.8	14.3	14.7
60	11.5	10.6	9.50	9.22	9.27	9.24	8.81	9.06	8.81	8.75	9.00	10.3	11.3	10.7	9.87	9.67	10.4	10.9	11.1
65	9.93	8.90	7.70	7.33	7.08	6.90	6.47	6.69	6.79	7.02	7.41	8.52	9.69	8.82	8.00	7.72	7.90	8.13	8.12
70	9.55	7.76	6.64	6.14	5.83	5.40	5.13	5.36	5.65	5.86	6.57	7.38	8.93	7.94	6.65	6.32	6.25	6.19	6.04
75	18.2	9.85	5.81	5.04	4.97	4.57	4.24	4.42	4.63	4.62	5.16	7.35	7.80	6.78	6.12	5.68	5.53	5.19	4.82
80	9.96	6.76	4.41	3.79	3.59	3.38	2.95	3.43	3.28	3.41	4.12	5.99	6.93	5.54	4.72	4.16	4.22	4.17	3.92
85	6.78	4.98	3.27	2.78	2.52	2.36	1.93	2.19	2.28	2.47	2.98	4.74	4.94	4.54	3.45	3.01	2.90	2.95	2.60
90	3.82	3.74	2.57	2.06	1.84	1.50	1.41	1.44	1.72	1.99	2.50	4.53	0.00	4.15	2.59	2.15	2.01	1.93	1.68
95	0.39	5.06	2.61	1.99	1.73	1.40	1.34	1.34	1.64	1.95	2.80	9.42	0.00	6.69	2.69	1.93	1.65	1.46	1.31
100	0.52	13.4	6.30	2.01	1.66	1.29	1.30	1.22	1.56	1.96	6.83	36.4	0.00	26.1	5.29	2.01	1.59	1.39	1.28
105	3.01	3.13	6.59	1.64	1.39	1.08	1.20	1.01	1.34	1.44	5.34	24.1	0.51	22.2	7.46	2.05	1.49	1.25	1.24
110	0.00	1.34	0.64	0.97	1.04	0.84	0.86	0.78	0.99	0.92	0.51	1.28	0.00	2.76	2.08	1.27	1.21	1.02	1.07
115	0.00	0.00	0.14	0.53	0.70	0.61	0.69	0.62	0.74	0.57	0.15	0.00	0.00	0.00	0.28	0.83	0.90	0.79	0.75
120	0.00	0.00	0.00	0.20	0.40	0.46	0.54	0.46	0.51	0.29	0.00	0.00	0.02	0.00	0.10	0.55	0.65	0.63	0.60
125	0.00	0.00	0.00	0.09	0.32	0.32	0.39	0.33	0.29	0.07	0.00	0.01	0.05	0.03	0.06	0.30	0.42	0.47	0.46
130	0.00	0.01	0.00	0.03	0.16	0.19	0.25	0.17	0.13	0.00	0.00	0.03	0.08	0.03	0.08	0.15	0.25	0.34	0.32
135	0.00	0.04	0.00	0.04	0.06	0.09	0.13	0.06	0.04	0.03	0.00	0.05	0.09	0.06	0.10	0.09	0.16	0.22	0.18
140	0.01	0.05	0.05	0.06	0.04	0.04	0.04	0.03	0.02	0.06	0.02	0.06	0.11	0.10	0.12	0.09	0.11	0.15	0.13
145	0.03	0.07	0.05	0.07	0.04	0.08	0.04	0.07	0.03	0.09	0.03	0.07	0.13	0.11	0.14	0.11	0.15	0.12	0.13
150	0.04	0.09	0.05	0.10	0.06	0.10	0.06	0.11	0.06	0.11	0.05	0.08	0.15	0.11	0.14	0.12	0.17	0.12	0.17
155	0.05	0.10	0.08	0.11	0.07	0.12	0.09	0.12	0.10	0.12	0.06	0.09	0.16	0.12	0.14	0.15	0.17	0.16	0.17
160	0.06	0.12	0.09	0.13	0.10	0.12	0.11	0.12	0.10	0.13	0.09	0.11	0.16	0.14	0.15	0.17	0.18	0.18	0.17
165	0.11	0.13	0.11	0.13	0.11	0.12	0.12	0.12	0.11	0.13	0.10	0.13	0.18	0.17	0.15	0.17	0.15	0.18	0.17
170	0.11	0.14	0.11	0.14	0.11	0.12	0.12	0.12	0.11	0.14	0.12	0.15	0.20	0.17	0.15	0.16	0.14	0.17	0.16
175	0.14	0.17	0.11	0.14	0.11	0.12	0.12	0.12	0.11	0.15	0.14	0.18	0.18	0.18	0.15	0.15	0.14	0.15	0.14
180	0.18	0.18	0.12	0.14	0.11	0.12	0.12	0.12	0.12	0.15	0.17	0.19	0.18	0.18	0.15	0.13	0.13	0.14	0.13

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25DEG  
Operators:Qin Meng  
Test Date:2024-02-26

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:SALED GO-2000B\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:8.540m [K=1.0000]  
Remarks:

**LUMINOUS DISTRIBUTION INTENSITY DATA**

Test:U:12.00V I:1.207A P:14.48W PF:1.000 Freq:0Hz Lamp Flux:278.729x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:φ20mm	Shielding Angle:

Table--2

UNIT: cd

C (DEG) γ (DEG)	285	300	315	330	345															
0	566	563	566	564	567															
5	524	547	571	596	602															
10	273	334	418	527	605															
15	113	141	224	387	561															
20	76.4	83.3	105	231	479															
25	59.6	63.7	69.0	122	361															
30	47.1	49.7	52.2	68.2	234															
35	37.7	38.3	40.0	45.6	134															
40	29.9	30.1	30.3	32.2	66.3															
45	23.8	23.6	22.8	23.2	32.4															
50	18.7	18.0	17.3	17.3	18.1															
55	14.4	14.1	13.4	13.0	13.1															
60	11.1	10.8	10.3	10.3	10.8															
65	8.42	8.36	8.09	8.16	8.79															
70	6.44	6.41	6.55	6.81	7.42															
75	5.14	5.42	5.73	6.00	7.44															
80	4.08	4.56	4.42	4.93	7.02															
85	2.92	3.09	3.22	3.57	4.66															
90	2.04	2.11	2.34	2.59	3.49															
95	1.43	1.63	1.95	2.53	3.85															
100	1.34	1.52	1.87	3.07	21.8															
105	1.21	1.38	1.83	7.15	30.5															
110	0.97	1.09	1.22	1.75	1.27															
115	0.77	0.79	0.78	0.25	0.00															
120	0.60	0.58	0.50	0.03	0.00															
125	0.45	0.39	0.29	0.01	0.00															
130	0.32	0.20	0.10	0.03	0.00															
135	0.20	0.10	0.04	0.06	0.03															
140	0.12	0.06	0.05	0.08	0.05															
145	0.08	0.11	0.05	0.11	0.07															
150	0.13	0.17	0.11	0.14	0.11															
155	0.17	0.18	0.17	0.19	0.12															
160	0.18	0.19	0.19	0.19	0.16															
165	0.19	0.19	0.19	0.19	0.17															
170	0.18	0.18	0.19	0.19	0.18															
175	0.17	0.15	0.18	0.19	0.18															
180	0.15	0.14	0.16	0.18	0.18															

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25DEG  
 Operators:Qin Meng  
 Test Date:2024-02-26

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:SALED GO-2000B\_V1 SYSTEM V2.0.362  
 Humidity:65.0%  
 Test Distance:8.540m [K=1.0000]  
 Remarks: