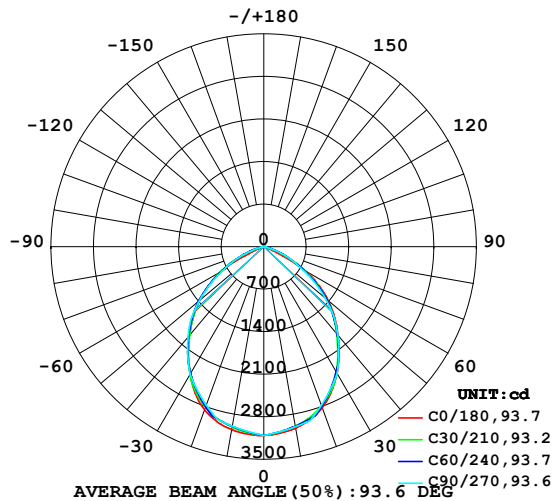


## LUMINAIRE PHOTOMETRIC TEST REPORT

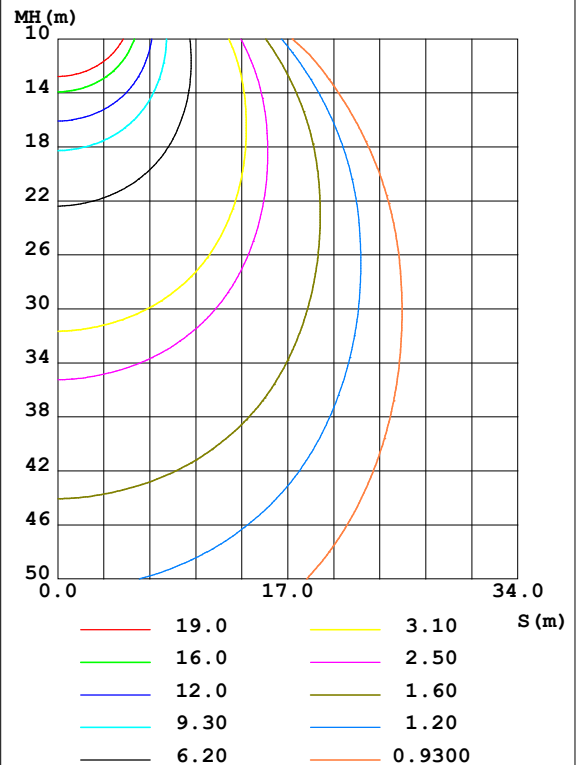
Test:U:120.05V I:0.3499A P:41.911W PF:0.9978 Freq:59.98Hz Lamp Flux:6445.38x1 lm		
NAME: LED Explosion-proof Light	TYPE:Flood Light	WEIGHT:N/A
SPEC.:40W/5000K/90°	DIM.: 190*150mm	SERIAL No.:N/A
MFR.: Grin Industrial Co., Ltd.	SUR.:N/A	Shielding Angle:N/A

DATA OF LAMP		PHOTOMETRIC DATA Eff: 153.79 lm/W			
MODEL	GHSM-06-U	I <sub>max</sub> (cd)	3107	S/MH(C0/180)	1.17
NOMINAL POWER(W)	40	LOR(%)	100.0	S/MH(C90/270)	1.17
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	6445.4	□ UP,DN(C0-180)	0.0,49.5
NOMINAL FLUX(lm)	6445.38	CIE CLASS	DIRECT	□ UP,DN(C180-360)	0.0,50.5
LAMPS INSIDE	1	□ up(%)	0.0	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	120	□ down(%)	100.0	CIBSE SHR MAX	1.30

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



H(□) Range:-90 - 90DEG  
H(□) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Jessy  
Test Date:2024-12-16

V(B) Range:-75 - 75DEG  
V(B) Interval: 5.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.411  
Humidity:65.0%  
Test Distance:7.058m [K=1.0000]  
Remarks:

## ZONAL FLUX DIAGRAM

## ZONAL FLUX DIAGRAM:

°	C0	C45	C90	C135	C180	C225	C270	C315	°	□ zone	□ total	%lum, lamp
10	3031	2996	3008	3012	3056	3006	2998	2986	0- 10	290.7	290.7	4.51, 4.51
20	2818	2824	2777	2845	2856	2840	2773	2803	10- 20	825.4	1116	17.3, 17.3
30	2409	2376	2413	2392	2430	2406	2429	2386	20- 30	1202	2318	36, 36
40	1902	1883	1894	1891	1901	1927	1941	1917	30- 40	1346	3664	56.8, 56.8
50	1393	1344	1323	1340	1379	1386	1386	1392	40- 50	1264	4928	76.5, 76.5
60	744.0	764.8	699.0	767.8	785.8	809.5	763.8	815.0	50- 60	960.2	5888	91.4, 91.4
70	65.85	216.6	253.6	237.7	67.66	264.0	276.8	266.2	60- 70	467.5	6355	98.6, 98.6
80	13.21	11.17	0	12.03	14.30	12.20	0	12.33	70- 80	87.84	6443	100, 100
90	0.7792	0	0	0	0.7694	0	0	0	80- 90	2.102	6445	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): 4319 lm

%lum = 67.0%

%lamp = 67.0%

Conical surface Flux(120deg): 5888 lm

%lum = 91.4%

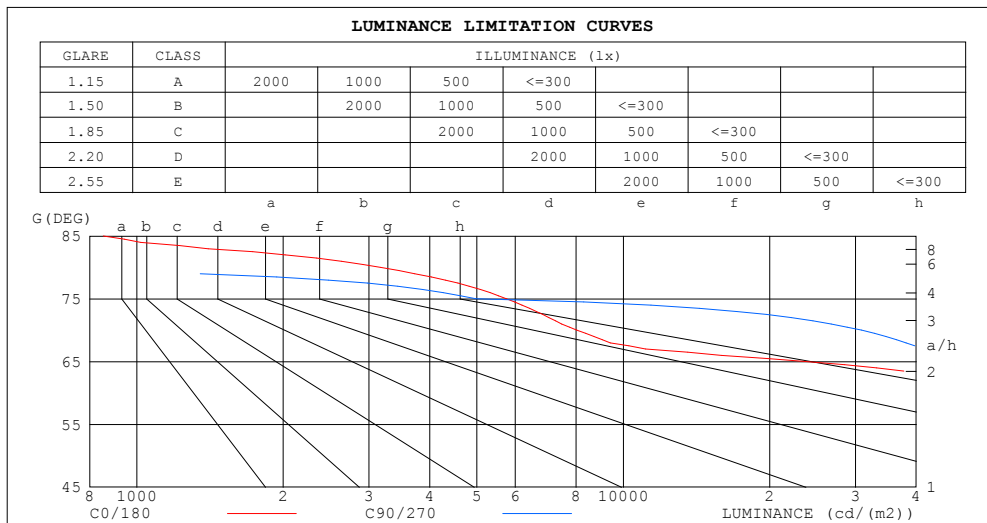
%lamp = 91.4%

H(□) Range:-90 - 90DEG  
H(□) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Jessy  
Test Date:2024-12-16

V(B) Range:-75 - 75DEG  
V(B) Interval: 5.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.411  
Humidity:65.0%  
Test Distance:7.058m [K=1.0000]  
Remarks:

## LUMINANCE LIMITATION CURVES

Test:U:120.05V I:0.3499A P:41.911W PF:0.9978 Freq:59.98Hz Lamp Flux:6445.38x1 lm		
NAME: LED Explosion-proof Light	TYPE:Flood Light	WEIGHT:N/A
SPEC.:40W/5000K/90°	DIM.: 190*150mm	SERIAL No.:N/A
MFR.: Grin Industrial Co., Ltd.	SUR.:N/A	Shielding Angle:N/A



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	854	0
80	3169	0
75	5747	4980
70	8022	30897
65	23620	46959
60	62001	58248
55	80108	73431
50	90279	85739
45	97451	96316

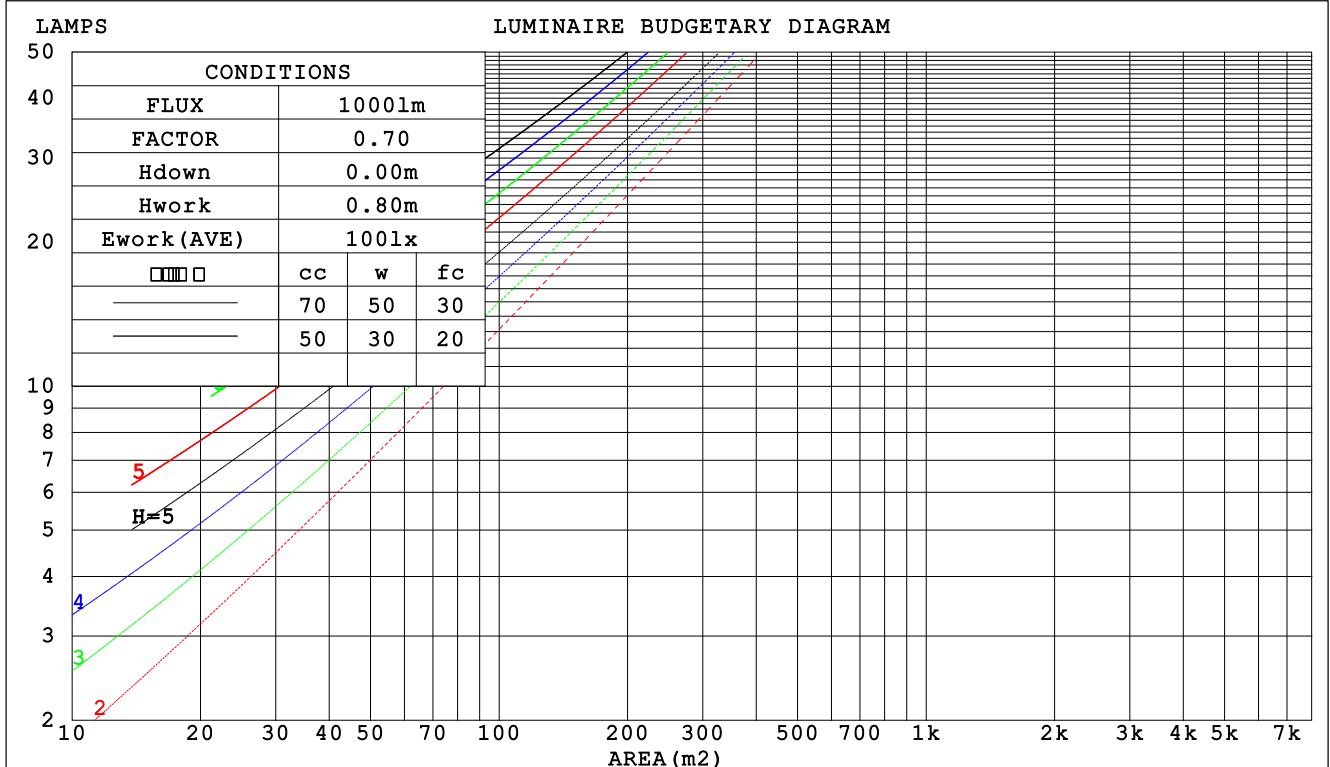
H(□) Range:-90 - 90DEG  
H(□) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Jessy  
Test Date:2024-12-16

V(B) Range:-75 - 75DEG  
V(B) Interval: 5.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.411  
Humidity:65.0%  
Test Distance:7.058m [K=1.0000]  
Remarks:

## CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.05V I:0.3499A P:41.911W PF:0.9978 Freq:59.98Hz Lamp Flux:6445.38x1 lm		
NAME: LED Explosion-proof Light	TYPE:Flood Light	WEIGHT:N/A
SPEC.:40W/5000K/90°	DIM.: 190*150mm	SERIAL No.:N/A
MFR.: Grin Industrial Co., Ltd.	SUR.:N/A	Shielding Angle:N/A

□cc	80%			70%			50%			30%			10%			0
□w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
□fc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio															



H(□) Range:-90 - 90DEG  
H(□) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Jessy  
Test Date:2024-12-16

V(B) Range:-75 - 75DEG  
V(B) Interval: 5.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.411  
Humidity:65.0%  
Test Distance:7.058m [K=1.0000]  
Remarks:

## WEC AND CCEC

Test:U:120.05V I:0.3499A P:41.911W PF:0.9978 Freq:59.98Hz Lamp Flux:6445.38x1 lm					
NAME: LED Explosion-proof Light			TYPE:Flood Light		WEIGHT:N/A
SPEC.:40W/5000K/90°			DIM.: 190*150mm		SERIAL No.:N/A
MFR.: Grin Industrial Co., Ltd.			SUR.:N/A		Shielding Angle:N/A

□cc	80%			70%			50%			30%			10%			0	
□w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0	
□fc	20%			20%			20%			20%			20%			0	
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients (WEC)										
0.0																	
1.0	.244	.139	.044	.237	.135	.043	.224	.129	.041	.213	.123	.039	.202	.117	.038		
2.0	.240	.132	.040	.234	.129	.040	.223	.124	.039	.213	.119	.037	.203	.115	.036		
3.0	.230	.122	.037	.224	.120	.036	.214	.116	.035	.205	.113	.035	.197	.109	.034		
4.0	.217	.113	.033	.212	.111	.033	.204	.108	.032	.196	.105	.032	.188	.102	.031		
5.0	.205	.104	.030	.200	.103	.030	.193	.100	.030	.186	.098	.029	.179	.096	.029		
6.0	.193	.097	.028	.189	.095	.027	.182	.093	.027	.176	.091	.027	.170	.089	.027		
7.0	.181	.090	.025	.178	.089	.025	.172	.087	.025	.166	.085	.025	.161	.084	.025		
8.0	.171	.084	.023	.168	.083	.023	.163	.081	.023	.157	.080	.023	.153	.078	.023		
9.0	.162	.078	.022	.159	.077	.022	.154	.076	.022	.149	.075	.021	.145	.074	.021		
10.0	.153	.073	.020	.151	.073	.020	.146	.072	.020	.142	.070	.020	.138	.069	.020		

□cc	80%			70%			50%			30%			10%			0
□w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
□fc	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	.176	.157	.140	.150	.135	.120	.103	.093	.083	.059	.054	.048	.019	.017	.016	
2.0	.165	.132	.104	.142	.114	.090	.097	.079	.063	.056	.046	.037	.018	.015	.012	
3.0	.157	.114	.080	.134	.098	.069	.092	.068	.049	.053	.040	.029	.017	.013	.009	
4.0	.149	.100	.063	.128	.087	.055	.088	.060	.039	.051	.035	.023	.016	.012	.008	
5.0	.142	.090	.051	.122	.077	.044	.084	.054	.031	.049	.032	.019	.016	.010	.006	
6.0	.135	.081	.042	.116	.070	.037	.080	.049	.026	.046	.029	.015	.015	.009	.005	
7.0	.129	.074	.036	.111	.064	.031	.077	.045	.022	.044	.026	.013	.014	.009	.004	
8.0	.123	.068	.031	.106	.059	.027	.073	.042	.019	.043	.024	.011	.014	.008	.004	
9.0	.117	.063	.027	.101	.055	.023	.070	.039	.017	.041	.023	.010	.013	.007	.003	
10.0	.112	.059	.024	.097	.051	.021	.067	.036	.015	.039	.021	.009	.013	.007	.003	

H(□) Range:-90 - 90DEG  
H(□) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Jessy  
Test Date:2024-12-16

V(B) Range:-75 - 75DEG  
V(B) Interval: 5.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.411  
Humidity:65.0%  
Test Distance:7.058m [K=1.0000]  
Remarks:

UGR(Unified Glare Rating) Table

Test:U:120.05V I:0.3499A P:41.911W PF:0.9978 Freq:59.98Hz Lamp Flux:6445.38x1 lm										
NAME: LED Explosion-proof Light					TYPE:Flood Light			WEIGHT:N/A		
SPEC.:40W/5000K/90°					DIM.: 190*150mm			SERIAL No.:N/A		
MFR.: Grin Industrial Co., Ltd.					SUR.:N/A			Shielding Angle:N/A		
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	21.0	22.4	21.3	22.6	22.8	20.9	22.3	21.2	22.5	22.7
3H	21.0	22.3	21.3	22.5	22.7	21.4	22.6	21.7	22.8	23.1
4H	20.9	22.1	21.2	22.4	22.6	21.3	22.5	21.6	22.7	23.0
6H	20.8	21.9	21.2	22.2	22.5	21.2	22.3	21.6	22.6	22.9
8H	20.8	21.8	21.1	22.1	22.4	21.2	22.2	21.5	22.5	22.8
12H	20.7	21.8	21.1	22.0	22.3	21.1	22.1	21.5	22.4	22.7
4H 2H	21.3	22.4	21.6	22.7	22.9	21.2	22.3	21.5	22.6	22.8
3H	21.3	22.3	21.7	22.6	22.9	21.7	22.7	22.1	23.0	23.3
4H	21.3	22.2	21.6	22.5	22.8	21.7	22.6	22.1	22.9	23.3
6H	21.2	22.0	21.6	22.3	22.7	21.6	22.4	22.0	22.8	23.1
8H	21.1	21.9	21.5	22.2	22.6	21.6	22.3	22.0	22.7	23.0
12H	21.1	21.8	21.5	22.1	22.5	21.5	22.2	21.9	22.6	23.0
8H 4H	21.2	21.9	21.6	22.3	22.7	21.6	22.4	22.0	22.7	23.1
6H	21.1	21.7	21.5	22.1	22.5	21.5	22.1	22.0	22.5	23.0
8H	21.1	21.6	21.5	22.0	22.5	21.5	22.0	21.9	22.4	22.9
12H	21.0	21.5	21.5	21.9	22.4	21.4	21.9	21.9	22.3	22.8
12H 4H	21.1	21.8	21.6	22.2	22.6	21.6	22.2	22.0	22.6	23.0
6H	21.1	21.6	21.5	22.0	22.5	21.5	22.0	21.9	22.4	22.9
8H	21.0	21.5	21.5	21.9	22.4	21.4	21.9	21.9	22.3	22.8
Variations with the observer position at spacings:										
S = 1.0H	+ 0.6 / - 0.7					+ 0.6 / - 0.7				
1.5H	+ 0.5 / - 0.9					+ 0.3 / - 0.5				
2.0H	+ 1.1 / - 1.4					+ 1.1 / - 1.6				

CIE Pub.117, 6445 lm Total Lamp Luminous Flux Correct ( $8\log(F/F_0) = 6.5$ )  
Area: 0.024 m<sup>2</sup>

H(□) Range:-90 - 90DEG  
H(□) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Jessy  
Test Date:2024-12-16

V(B) Range:-75 - 75DEG  
V(B) Interval: 5.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.411  
Humidity:65.0%  
Test Distance:7.058m [K=1.0000]  
Remarks:

## UTILIZATION FACTORS TABLE

Test:U:120.05V I:0.3499A P:41.911W PF:0.9978 Freq:59.98Hz Lamp Flux:6445.38x1 lm		
NAME: LED Explosion-proof Light	TYPE:Flood Light	WEIGHT:N/A
SPEC.:40W/5000K/90°	DIM.: 190*150mm	SERIAL No.:N/A
MFR.: Grin Industrial Co., Ltd.	SUR.:N/A	Shielding Angle:N/A

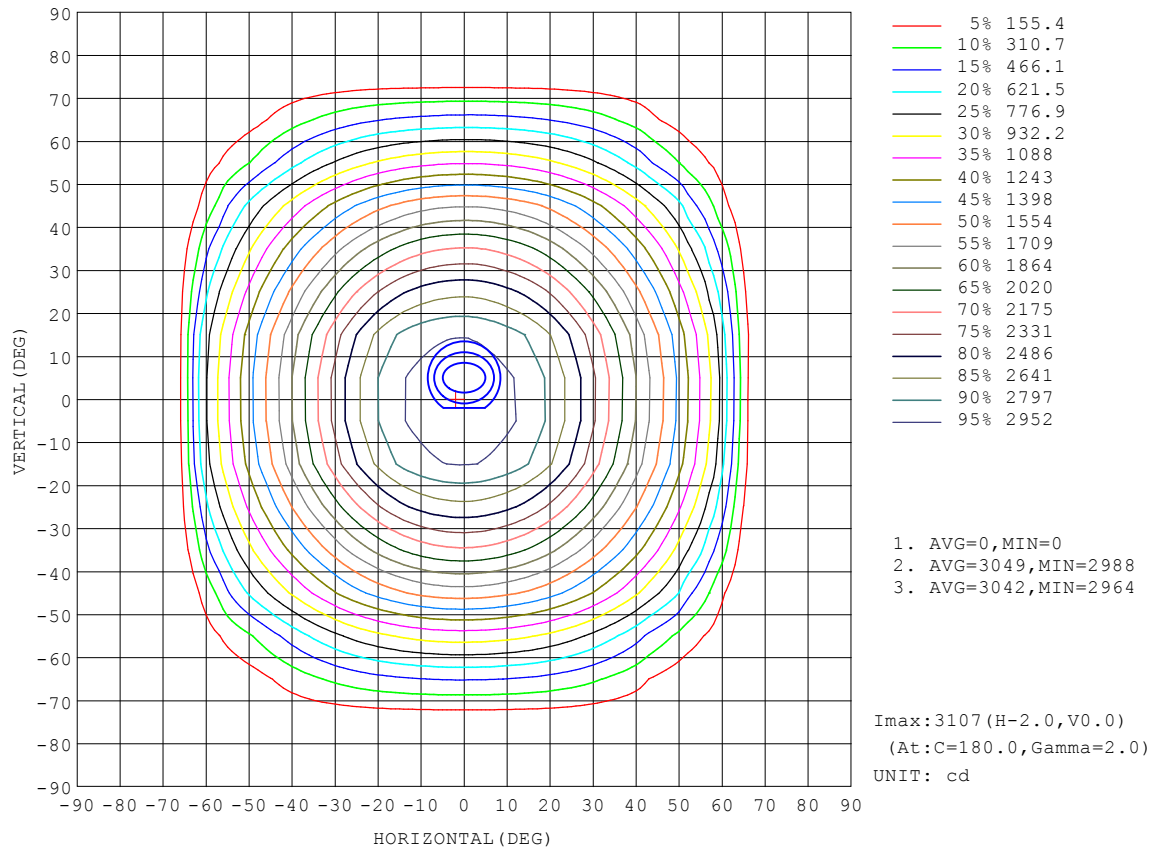
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	64	54	47	63	53	47	62	53	47	41
0.80	74	64	58	74	64	58	72	63	57	51
1.00	83	74	67	82	73	67	80	74	67	60
1.25	90	81	75	89	80	75	86	79	74	68
1.50	94	86	81	93	85	80	90	84	79	73
2.00	100	94	88	99	92	88	95	90	86	79
2.50	103	97	92	102	96	92	98	93	90	82
3.00	106	101	96	104	99	95	100	96	93	86
4.00	109	105	101	107	103	100	103	100	97	89
5.00	111	107	104	109	106	103	105	102	100	91
ROOM INDEX	UF (total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

H(□) Range:-90 - 90DEG  
 H(□) Interval: 1.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:Jessy  
 Test Date:2024-12-16

V(B) Range:-75 - 75DEG  
 V(B) Interval: 5.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.411  
 Humidity:65.0%  
 Test Distance:7.058m [K=1.0000]  
 Remarks:

## ISOCANDELA DIAGRAM

Test:U:120.05V I:0.3499A P:41.911W PF:0.9978 Freq:59.98Hz Lamp Flux:6445.38x1 lm		
NAME: LED Explosion-proof Light	TYPE:Flood Light	WEIGHT:N/A
SPEC.:40W/5000K/90°	DIM.: 190*150mm	SERIAL No.:N/A
MFR.: Grin Industrial Co., Ltd.	SUR.:N/A	Shielding Angle:N/A



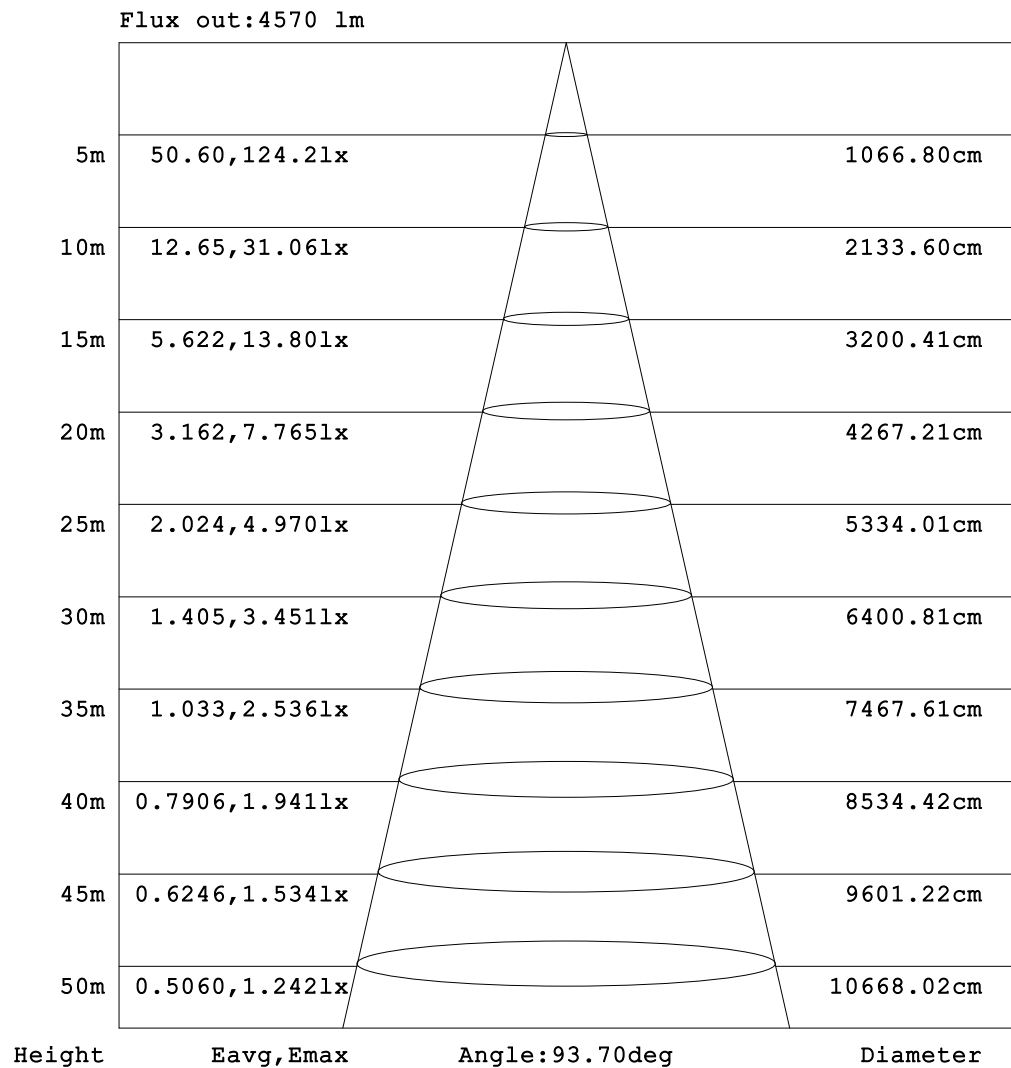
H(□) Range:-90 - 90DEG  
H(□) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Jessy  
Test Date:2024-12-16

V(B) Range:-75 - 75DEG  
V(B) Interval: 5.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.411  
Humidity:65.0%  
Test Distance:7.058m [K=1.0000]  
Remarks:



## AAI Figure

Test:U:120.05V I:0.3499A P:41.911W PF:0.9978 Freq:59.98Hz Lamp Flux:6445.38x1 lm		
NAME: LED Explosion-proof Light	TYPE:Flood Light	WEIGHT:N/A
SPEC.:40W/5000K/90°	DIM.: 190*150mm	SERIAL No.:N/A
MFR.: Grin Industrial Co., Ltd.	SUR.:N/A	Shielding Angle:N/A



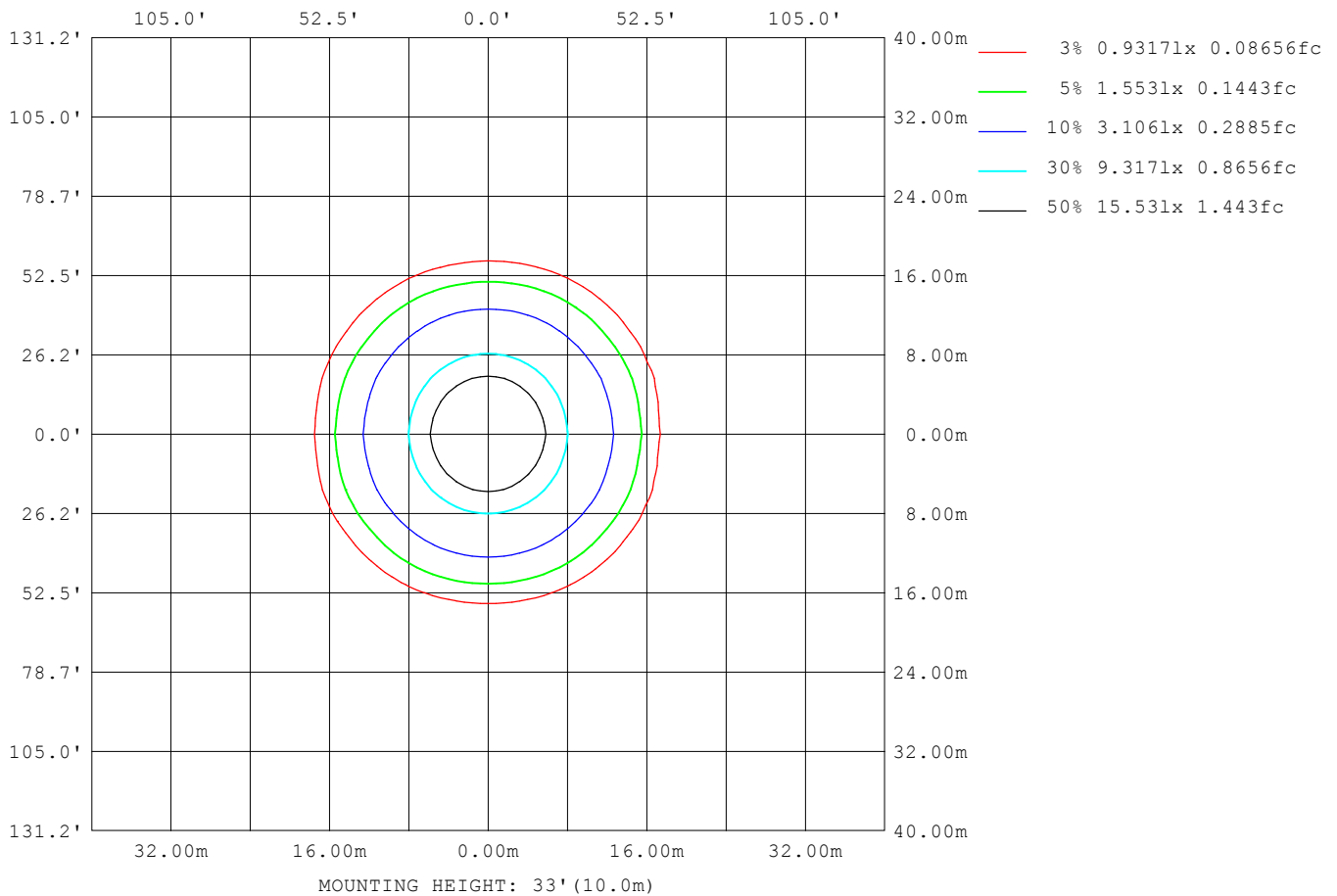
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

H(□) Range:-90 - 90DEG  
H(□) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Jessy  
Test Date:2024-12-16

V(B) Range:-75 - 75DEG  
V(B) Interval: 5.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.411  
Humidity:65.0%  
Test Distance:7.058m [K=1.0000]  
Remarks:

## ISOLUX DIAGRAM

Test:U:120.05V I:0.3499A P:41.911W PF:0.9978 Freq:59.98Hz Lamp Flux:6445.38x1 lm		
NAME: LED Explosion-proof Light	TYPE:Flood Light	WEIGHT:N/A
SPEC.:40W/5000K/90°	DIM.: 190*150mm	SERIAL No.:N/A
MFR.: Grin Industrial Co., Ltd.	SUR.:N/A	Shielding Angle:N/A



H(□) Range:-90 - 90DEG  
H(□) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Jessy  
Test Date:2024-12-16

V(B) Range:-75 - 75DEG  
V(B) Interval: 5.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.411  
Humidity:65.0%  
Test Distance:7.058m [K=1.0000]  
Remarks:

## LED Avg.L Report

Test:U:120.05V I:0.3499A P:41.911W PF:0.9978 Freq:59.98Hz Lamp Flux:6445.38x1 lm		
NAME: LED Explosion-proof Light	TYPE:Flood Light	WEIGHT:N/A
SPEC.:40W/5000K/90°	DIM.: 190*150mm	SERIAL No.:N/A
MFR.: Grin Industrial Co., Ltd.	SUR.:N/A	Shielding Angle:N/A

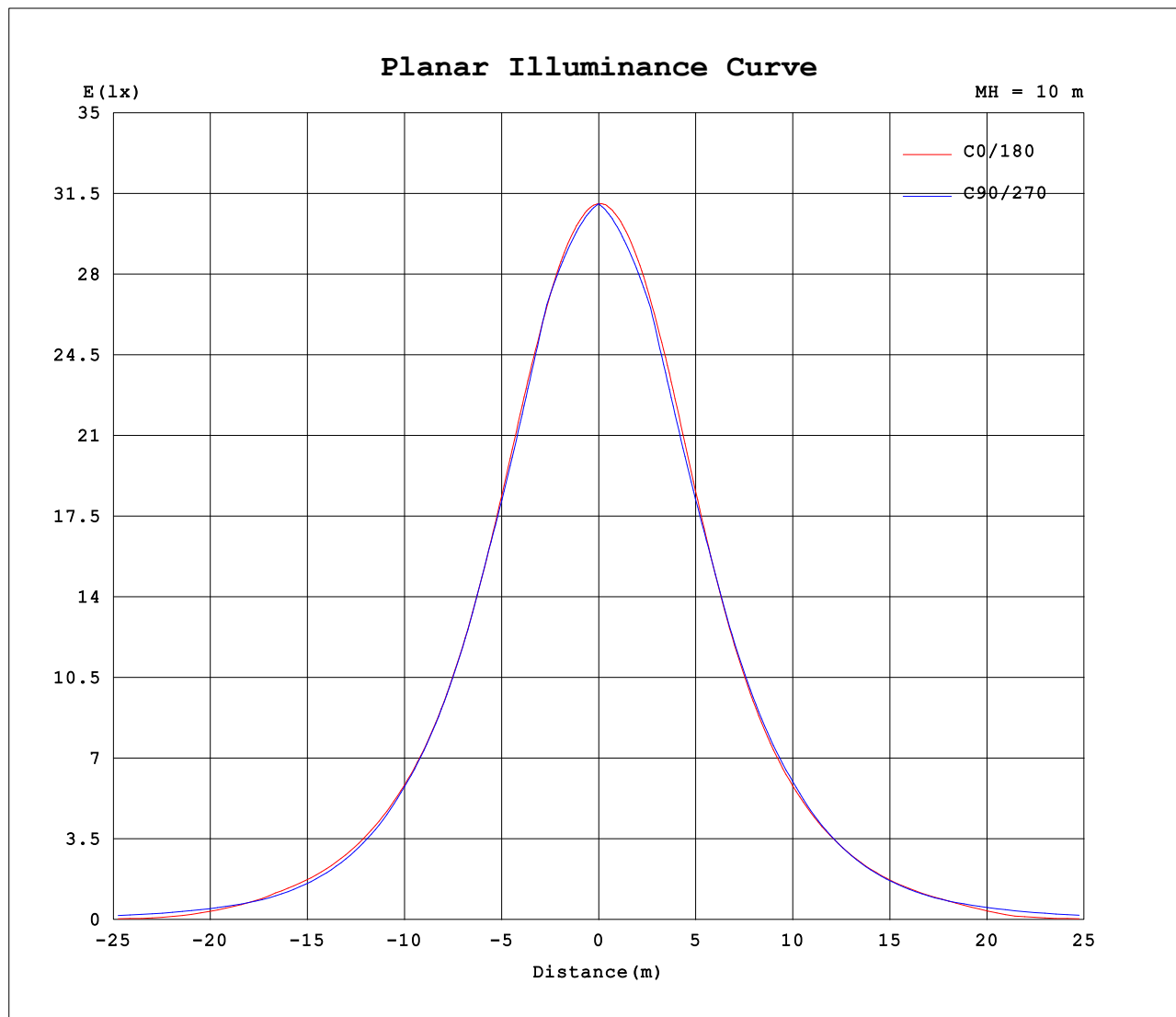
AvgL	cd/m2
L_0~180 (65) av	22548
L_0~180 (75) av	5864
L_0~180 (85) av	907
L_90~270 (65) av	49128
L_90~270 (75) av	5171
L_90~270 (85) av	0
L_45 (65) av	47796
L_45 (75) av	17722
L_45 (85) av	0

Standard: GB/T 29293-2012

H(□) Range:-90 - 90DEG  
H(□) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Jessy  
Test Date:2024-12-16

V(B) Range:-75 - 75DEG  
V(B) Interval: 5.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.411  
Humidity:65.0%  
Test Distance:7.058m [K=1.0000]  
Remarks:

## Planar Illuminance Curve



H(□) Range:-90 - 90DEG  
H(□) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Jessy  
Test Date:2024-12-16

V(B) Range:-75 - 75DEG  
V(B) Interval: 5.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.411  
Humidity:65.0%  
Test Distance:7.058m [K=1.0000]  
Remarks:

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