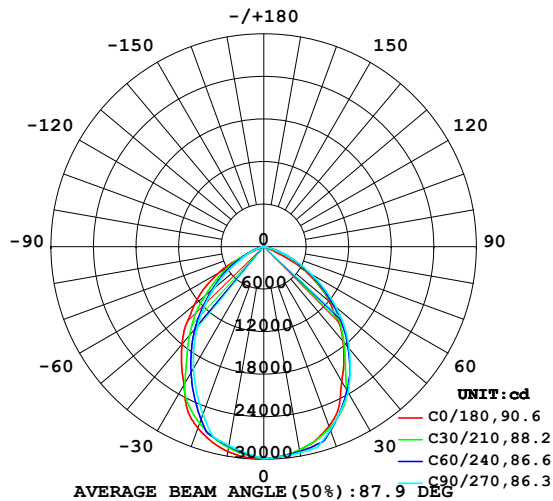


## LUMINAIRE PHOTOMETRIC TEST REPORT

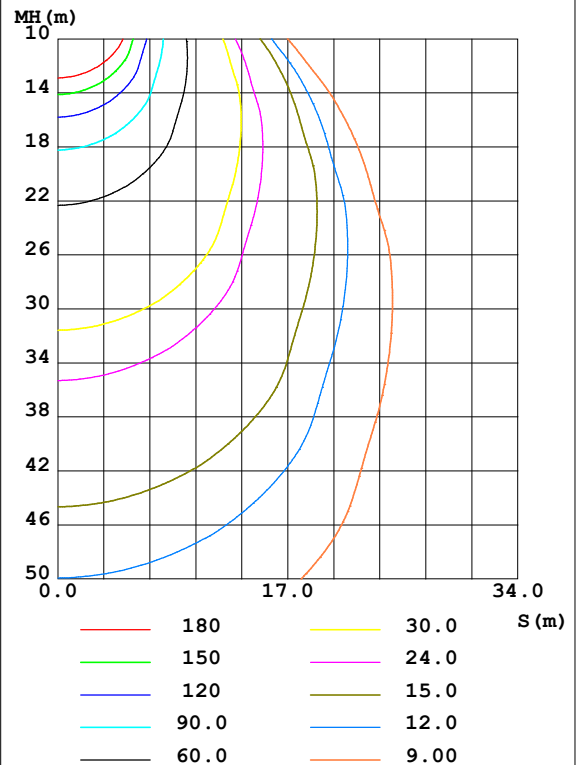
Test:U:219.88V I:1.8304A P:392.67W PF:0.9757 Freq:59.98Hz Lamp Flux:58108.5x1 lm		
NAME: LED High Bay Light	TYPE:Flood Light	WEIGHT:N/A
SPEC.:400W/90°/5000K	DIM.: 310*500mm	SERIAL No.:N/A
MFR.: Grin Industrial Co., Ltd.	SUR.:N/A	Shielding Angle:N/A

DATA OF LAMP		PHOTOMETRIC DATA Eff: 147.99 lm/W			
MODEL	GSM-60-U	I <sub>max</sub> (cd)	29927	S/MH(C0/180)	1.14
NOMINAL POWER(W)	400	LOR(%)	100.0	S/MH(C90/270)	1.03
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	58109	□ UP,DN(C0-180)	0.0,54.0
NOMINAL FLUX(lm)	58108.5	CIE CLASS	DIRECT	□ UP,DN(C180-360)	0.0,46.0
LAMPS INSIDE	1	□ up(%)	0.0	CIBSE SHR NOM	1.00
TEST VOLTAGE(V)	220	□ down(%)	100.0	CIBSE SHR MAX	1.15

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:2024-11-07

V(B) Range:-75 - 75DEG  
V(B) Interval: 5.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.411  
Humidity:65%  
Test Distance:6.898m [K=1.0000]  
Remarks:

## ZONAL FLUX DIAGRAM

## ZONAL FLUX DIAGRAM:

°	C0	C45	C90	C135	C180	C225	C270	C315	°	□ zone	□ total	%lum, lamp
10	2912	2920	2950	2933	2933	2864	2849	2847	0- 10	2802	2802	4.82, 4.82
20	2694	2778	2746	2811	2721	2665	2514	2631	10- 20	7933	10735	18.5, 18.5
30	2201	2341	2381	2382	2254	2139	1986	2103	20- 30	11341	22076	38, 38
40	1741	1776	1874	1830	1795	1524	1451	1487	30- 40	12217	34293	59, 59
50	1210	1271	1334	1320	1279	1018	920.1	976.2	40- 50	11049	45342	78, 78
60	663.4	734.0	762.5	795.9	728.6	508.4	393.1	474.4	50- 60	8060	53402	91.9, 91.9
70	65.96	270.6	291.3	309.6	72.08	120.4	142.1	104.8	60- 70	3885	57287	98.6, 98.6
80	16.78	19.93	0	21.50	19.41	7.324	0	6.763	70- 80	793.1	58080	100, 100
90	0.8329	0	0	0	0.7862	0	0	0	80- 90	28.48	58109	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): 40090 lm

%lum = 69.0%

%lamp = 69.0%

Conical surface Flux(120deg): 53402 lm

%lum = 91.9%

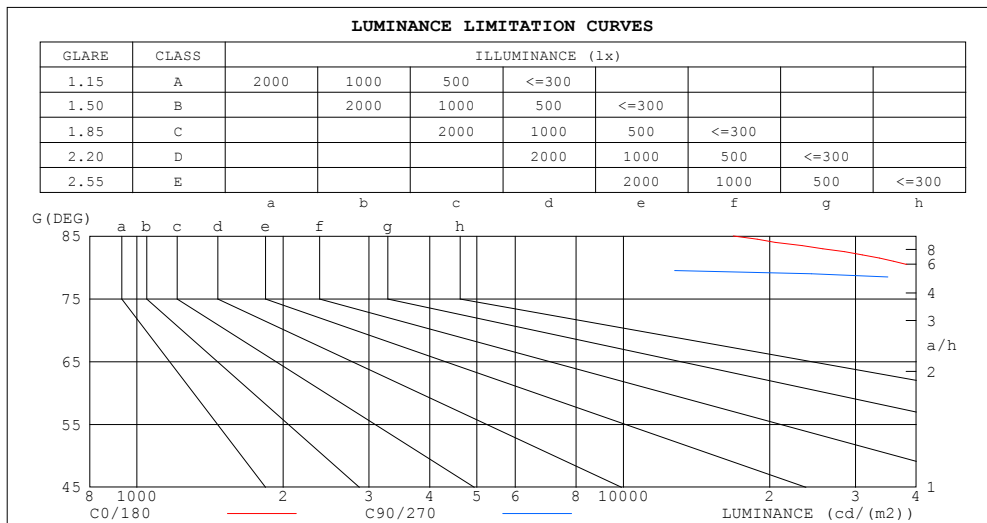
%lamp = 91.9%

H(□) Range:-90 - 90DEG  
H(□) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: Jessy  
Test Date: 2024-11-07

V(B) Range:-75 - 75DEG  
V(B) Interval: 5.0DEG  
Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.00.411  
Humidity: 65%  
Test Distance: 6.898m [K=1.0000]  
Remarks:

## LUMINANCE LIMITATION CURVES

Test:U:219.88V I:1.8304A P:392.67W PF:0.9757 Freq:59.98Hz Lamp Flux:58108.5x1 lm		
NAME: LED High Bay Light	TYPE:Flood Light	WEIGHT:N/A
SPEC.:400W/90°/5000K	DIM.: 310*500mm	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	16838	0
80	40271	0
75	61201	89815
70	80355	354938
65	202178	519490
60	552818	635392
55	691683	761610
50	784208	864962
45	872362	954781

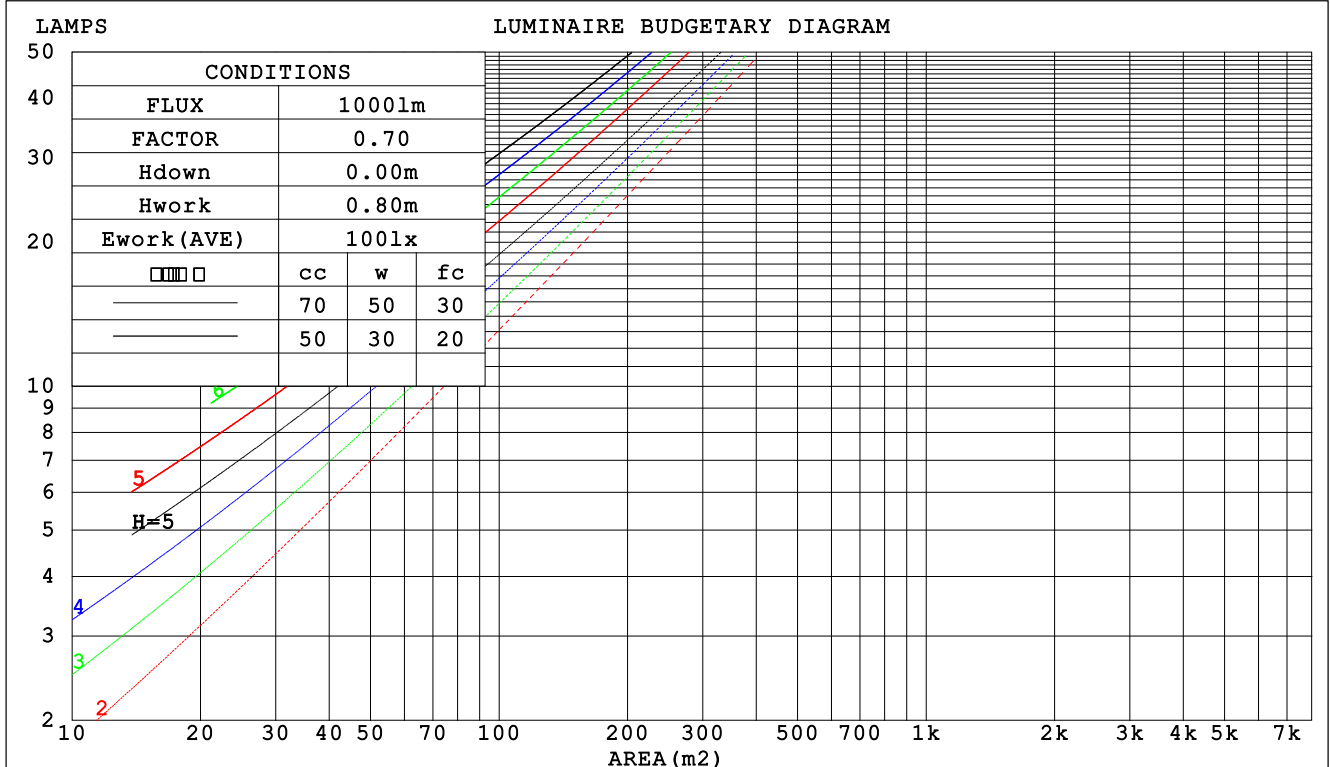
H(□) Range:-90 - 90DEG  
H(□) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Jessy  
Test Date:2024-11-07

V(B) Range:-75 - 75DEG  
V(B) Interval: 5.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.411  
Humidity:65%  
Test Distance:6.898m [K=1.0000]  
Remarks:

## CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:219.88V I:1.8304A P:392.67W PF:0.9757 Freq:59.98Hz Lamp Flux:58108.5x1 lm		
NAME: LED High Bay Light	TYPE:Flood Light	WEIGHT:N/A
SPEC.:400W/90°/5000K	DIM.: 310*500mm	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:2024-11-07

V(B) Range:-75 - 75DEG  
V(B) Interval: 5.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.411  
Humidity:65%  
Test Distance:6.898m [K=1.0000]  
Remarks:

## WEC AND CCEC

Test:U:219.88V I:1.8304A P:392.67W PF:0.9757 Freq:59.98Hz Lamp Flux:58108.5x1 lm		
NAME: LED High Bay Light	TYPE:Flood Light	WEIGHT:N/A
SPEC.:400W/90°/5000K	DIM.: 310*500mm	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	.240	.137	.043	.234	.133	.042	.221	.127	.040	.209	.120	.039	.198	.115	.037		
2.0	.236	.129	.040	.230	.127	.039	.219	.122	.038	.209	.117	.037	.199	.113	.036		
3.0	.226	.120	.036	.220	.118	.036	.211	.114	.035	.201	.110	.034	.193	.107	.033		
4.0	.213	.111	.033	.209	.109	.032	.200	.106	.032	.192	.103	.031	.185	.100	.031		
5.0	.201	.102	.030	.197	.101	.029	.189	.099	.029	.182	.096	.029	.176	.094	.028		
6.0	.189	.095	.027	.186	.094	.027	.179	.092	.027	.173	.090	.026	.167	.088	.026		
7.0	.179	.088	.025	.175	.087	.025	.169	.086	.025	.164	.084	.024	.158	.082	.024		
8.0	.169	.082	.023	.166	.082	.023	.160	.080	.023	.155	.079	.023	.150	.077	.022		
9.0	.159	.077	.022	.157	.076	.021	.152	.075	.021	.147	.074	.021	.143	.073	.021		
10.0	.151	.072	.020	.149	.072	.020	.144	.071	.020	.140	.070	.020	.136	.068	.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	.105	.141	.114	.091	.097	.079	.063	.056	.046	.037	.018	.015	.012	
3.0	.156	.114	.081	.134	.098	.070	.092	.068	.049	.053	.040	.029	.017	.013	.009	
4.0	.148	.100	.064	.127	.087	.055	.087	.060	.039	.051	.035	.023	.016	.012	.008	
5.0	.141	.089	.052	.121	.077	.045	.083	.054	.032	.048	.032	.019	.016	.010	.006	
6.0	.134	.081	.043	.115	.070	.037	.079	.049	.026	.046	.029	.016	.015	.009	.005	
7.0	.128	.074	.036	.110	.064	.031	.076	.045	.022	.044	.026	.013	.014	.009	.004	
8.0	.122	.068	.031	.105	.059	.027	.073	.041	.019	.042	.024	.011	.014	.008	.004	
9.0	.116	.063	.027	.100	.055	.023	.069	.038	.017	.040	.023	.010	.013	.007	.003	
10.0	.111	.059	.024	.096	.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:2024-11-07

V(B) Range:-75 - 75DEG  
V(B) Interval: 5.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.411  
Humidity:65%  
Test Distance:6.898m [K=1.0000]  
Remarks:

UGR(Unified Glare Rating) Table

Test:U:219.88V I:1.8304A P:392.67W PF:0.9757 Freq:59.98Hz Lamp Flux:58108.5x1 lm										
NAME: LED High Bay Light					TYPE:Flood Light			WEIGHT:N/A		
SPEC.:400W/90°/5000K					DIM.: 310*500mm			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	21.2	22.5	21.4	22.7	22.9	21.7	23.0	21.9	23.2	23.4
3H	21.2	22.4	21.5	22.6	22.9	22.3	23.5	22.5	23.7	23.9
4H	21.1	22.3	21.4	22.5	22.8	22.2	23.4	22.5	23.6	23.9
6H	21.0	22.1	21.3	22.4	22.6	22.1	23.2	22.5	23.5	23.7
8H	21.0	22.0	21.3	22.3	22.6	22.1	23.1	22.4	23.4	23.7
12H	20.9	21.9	21.3	22.2	22.5	22.0	23.0	22.4	23.3	23.6
4H 2H	21.5	22.7	21.8	22.9	23.1	21.9	23.1	22.2	23.3	23.6
3H	21.6	22.6	22.0	22.9	23.2	22.6	23.6	23.0	23.9	24.2
4H	21.6	22.5	21.9	22.8	23.1	22.6	23.5	23.0	23.8	24.2
6H	21.5	22.3	21.9	22.6	23.0	22.5	23.3	22.9	23.7	24.0
8H	21.5	22.2	21.9	22.5	22.9	22.5	23.2	22.9	23.6	24.0
12H	21.4	22.1	21.8	22.5	22.8	22.4	23.1	22.9	23.5	23.9
8H 4H	21.6	22.3	22.0	22.6	23.0	22.6	23.3	23.0	23.6	24.0
6H	21.5	22.1	21.9	22.5	22.9	22.5	23.1	22.9	23.5	23.9
8H	21.5	22.0	21.9	22.4	22.8	22.4	23.0	22.9	23.4	23.8
12H	21.4	21.9	21.9	22.3	22.8	22.4	22.8	22.9	23.3	23.8
12H 4H	21.5	22.2	21.9	22.6	23.0	22.5	23.2	22.9	23.6	24.0
6H	21.4	22.0	21.9	22.4	22.8	22.4	23.0	22.9	23.4	23.8
8H	21.4	21.9	21.9	22.3	22.8	22.4	22.8	22.9	23.3	23.8
Variations with the observer position at spacings:										
S = 1.0H	+ 0.7 / - 0.9					+ 0.5 / - 0.6				
1.5H	+ 0.4 / - 0.9					+ 0.3 / - 0.5				
2.0H	+ 1.0 / - 1.1					+ 1.1 / - 1.4				

CIE Pub.117, 58109 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 14.1)  
Area: 0.024 m2

H(□) Range:-90 - 90DEG  
H(□) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Jessy  
Test Date:2024-11-07

V(B) Range:-75 - 75DEG  
V(B) Interval: 5.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.411  
Humidity:65%  
Test Distance:6.898m [K=1.0000]  
Remarks:

## UTILIZATION FACTORS TABLE

Test:U:219.88V I:1.8304A P:392.67W PF:0.9757 Freq:59.98Hz Lamp Flux:58108.5x1 lm		
NAME: LED High Bay Light	TYPE:Flood Light	WEIGHT:N/A
SPEC.:400W/90°/5000K	DIM.: 310*500mm	SERIAL No.:N/A
MFR.: Grin Industrial Co., Ltd.	SUR.:N/A	Shielding Angle:N/A

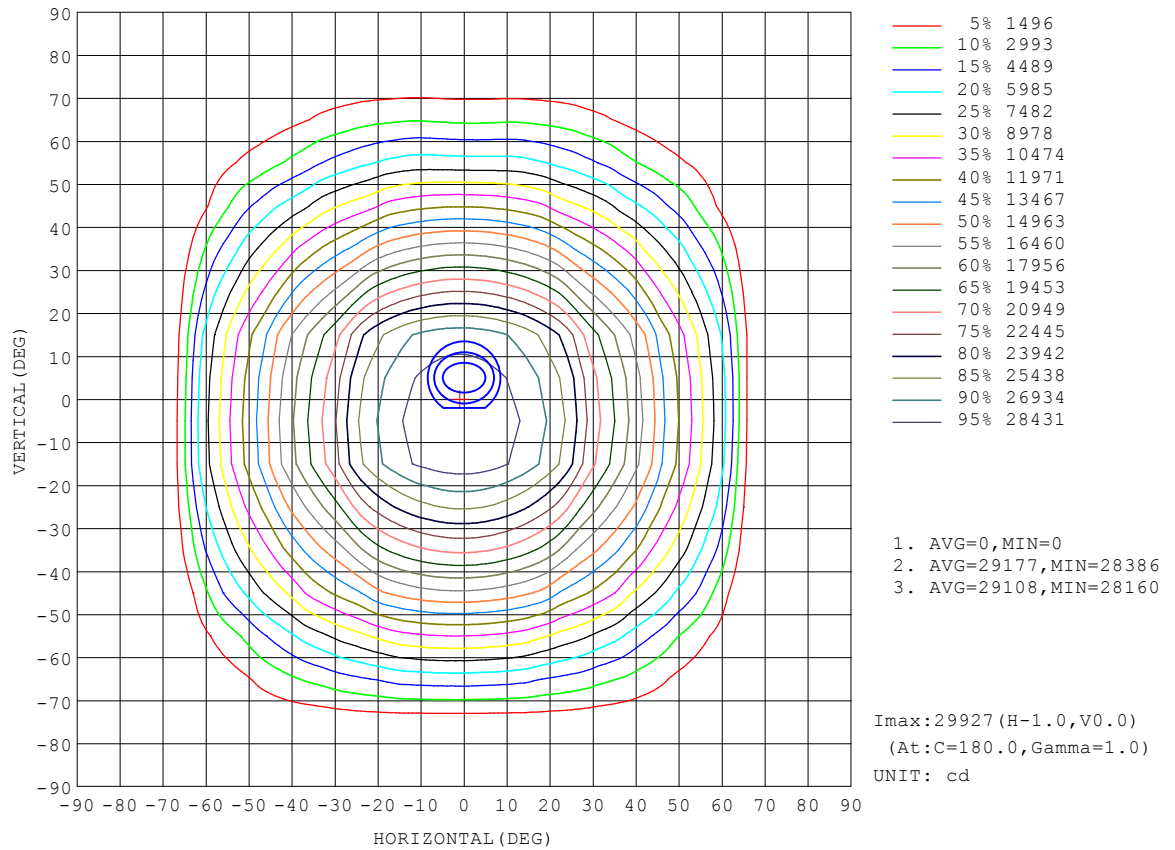
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	65	55	49	65	55	49	64	55	49	43
0.80	76	66	60	75	65	59	73	65	59	53
1.00	84	75	69	83	74	68	81	75	68	62
1.25	91	82	76	89	81	76	87	80	75	69
1.50	95	87	82	94	86	81	91	85	80	74
2.00	101	94	89	99	93	88	96	91	87	80
2.50	104	98	93	102	96	92	98	94	90	83
3.00	107	101	97	105	100	96	101	97	94	86
4.00	110	105	102	107	104	100	103	100	98	90
5.00	111	108	105	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:2024-11-07

V(B) Range:-75 - 75DEG  
 V(B) Interval: 5.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.411  
 Humidity:65%  
 Test Distance:6.898m [K=1.0000]  
 Remarks:

## ISOCANDELA DIAGRAM

Test:U:219.88V I:1.8304A P:392.67W PF:0.9757 Freq:59.98Hz Lamp Flux:58108.5x1 lm		
NAME: LED High Bay Light	TYPE:Flood Light	WEIGHT:N/A
SPEC.:400W/90°/5000K	DIM.: 310*500mm	SERIAL No.:N/A
MFR.: Grin Industrial Co., Ltd.	SUR.:N/A	Shielding Angle:N/A



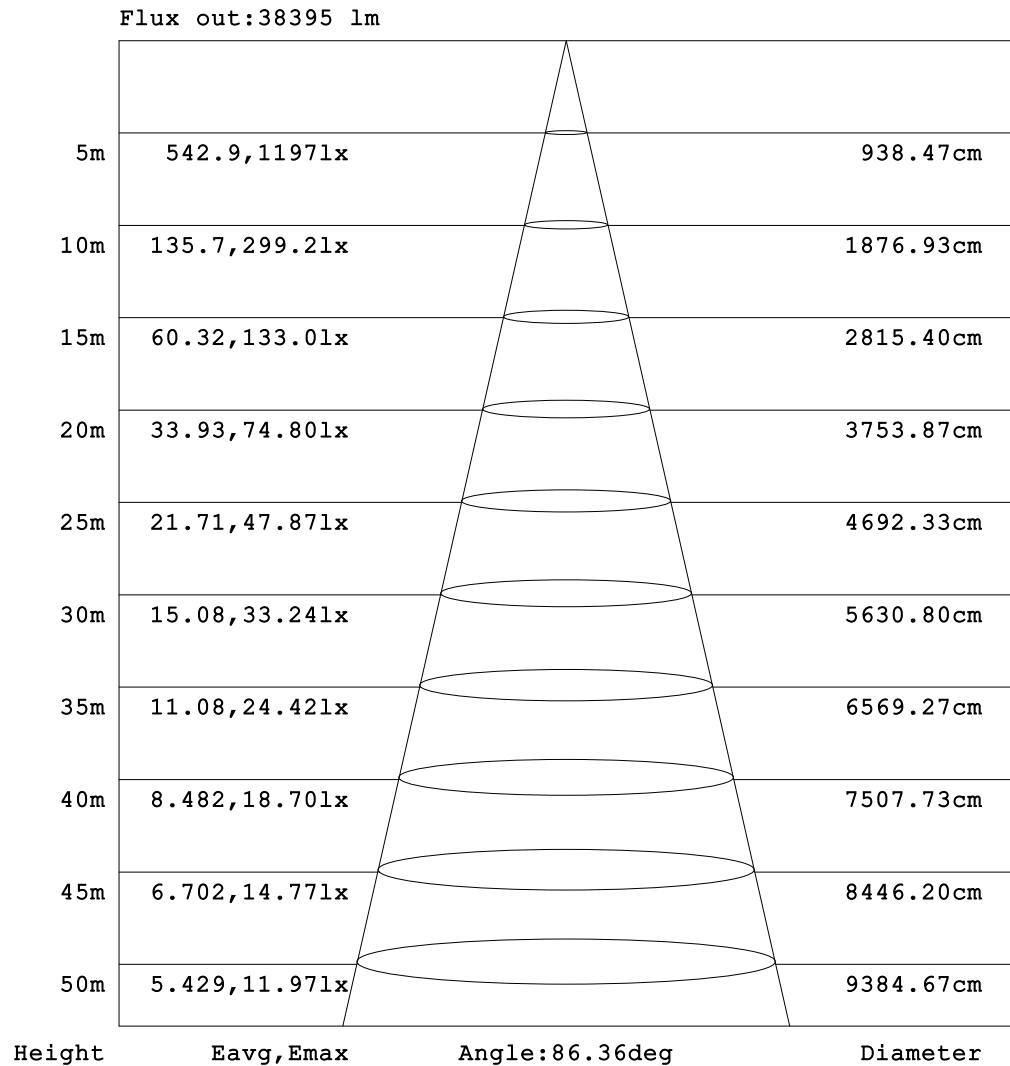
H(□) Range:-90 - 90DEG  
H(□) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Jessy  
Test Date:2024-11-07

V(B) Range:-75 - 75DEG  
V(B) Interval: 5.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.411  
Humidity:65%  
Test Distance:6.898m [K=1.0000]  
Remarks:



## AAI Figure

Test:U:219.88V I:1.8304A P:392.67W PF:0.9757 Freq:59.98Hz Lamp Flux:58108.5x1 lm		
NAME: LED High Bay Light	TYPE:Flood Light	WEIGHT:N/A
SPEC.:400W/90°/5000K	DIM.: 310*500mm	SERIAL No.:N/A
MFR.: Grin Industrial Co., Ltd.	SUR.:N/A	Shielding Angle:N/A



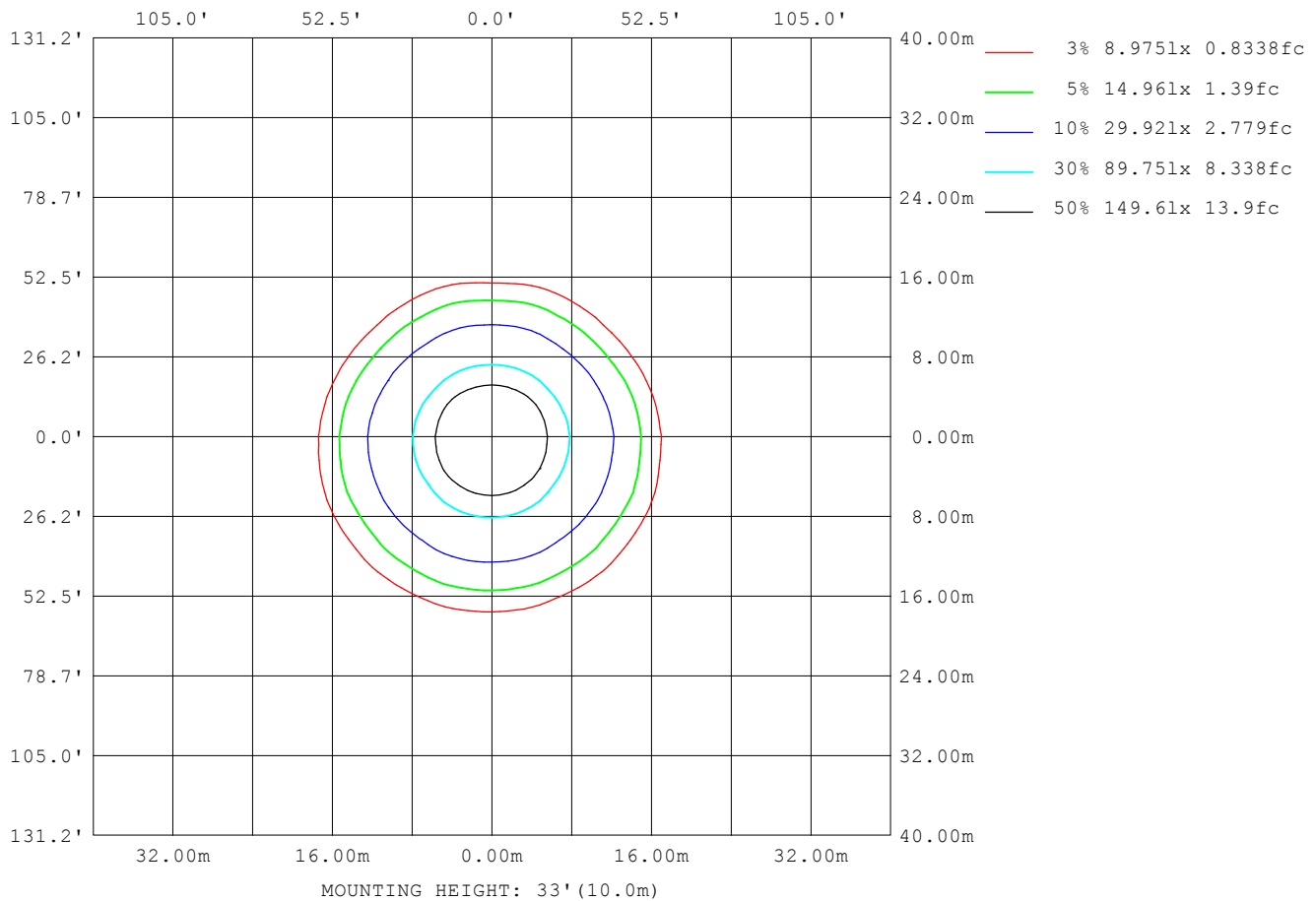
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

H(□) Range:-90 - 90DEG  
H(□) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Jessy  
Test Date:2024-11-07

V(B) Range:-75 - 75DEG  
V(B) Interval: 5.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.411  
Humidity:65%  
Test Distance:6.898m [K=1.0000]  
Remarks:

## ISOLUX DIAGRAM

Test:U:219.88V I:1.8304A P:392.67W PF:0.9757 Freq:59.98Hz Lamp Flux:58108.5x1 lm		
NAME: LED High Bay Light	TYPE:Flood Light	WEIGHT:N/A
SPEC.:400W/90°/5000K	DIM.: 310*500mm	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:2024-11-07

V(B) Range:-75 - 75DEG  
V(B) Interval: 5.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.411  
Humidity:65%  
Test Distance:6.898m [K=1.0000]  
Remarks:

## LED Avg.L Report

Test:U:219.88V I:1.8304A P:392.67W PF:0.9757 Freq:59.98Hz Lamp Flux:58108.5x1 lm		
NAME: LED High Bay Light	TYPE:Flood Light	WEIGHT:N/A
SPEC.:400W/90°/5000K	DIM.: 310*500mm	SERIAL No.:N/A
MFR.: Grin Industrial Co., Ltd.	SUR.:N/A	Shielding Angle:N/A

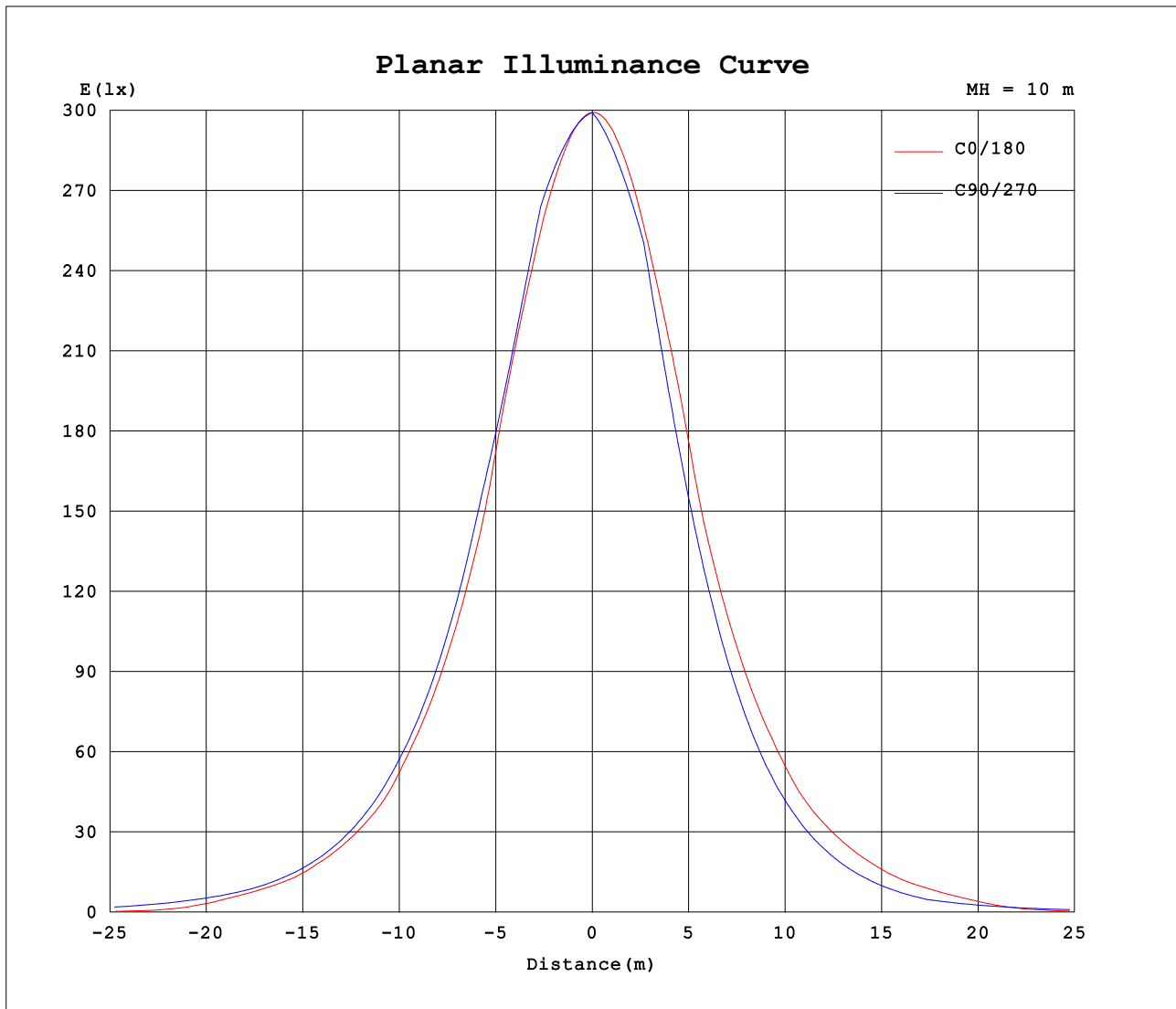
AvgL	cd/m2
L_0~180 (65) av	239628
L_0~180 (75) av	64241
L_0~180 (85) av	18716
L_90~270 (65) av	391657
L_90~270 (75) av	58239
L_90~270 (85) av	0
L_45 (65) av	379808
L_45 (75) av	153820
L_45 (85) av	0

Standard: GB/T 29293-2012

H(□) Range:-90 - 90DEG  
H(□) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Jessy  
Test Date:2024-11-07

V(B) Range:-75 - 75DEG  
V(B) Interval: 5.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.411  
Humidity:65%  
Test Distance:6.898m [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:2024-11-07

V(B) Range:-75 - 75DEG  
V(B) Interval: 5.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.411  
Humidity:65%  
Test Distance:6.898m [K=1.0000]  
Remarks:

V(B) Range:-75 - 75DEG  
V(B) Interval: 5.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.411  
Humidity:65%  
Test Distance:6.898m [K=1.0000]  
Remarks:

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