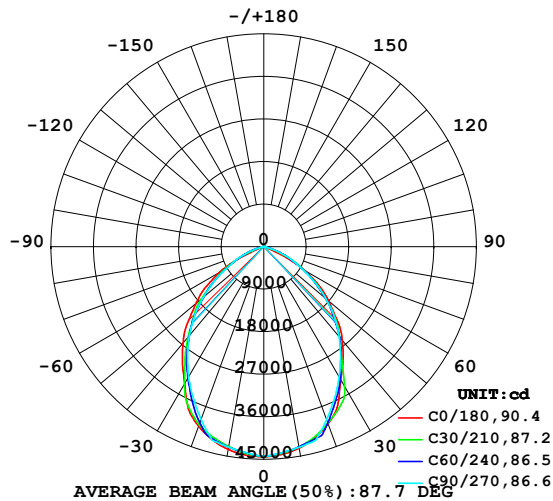


LUMINAIRE PHOTOMETRIC TEST REPORT

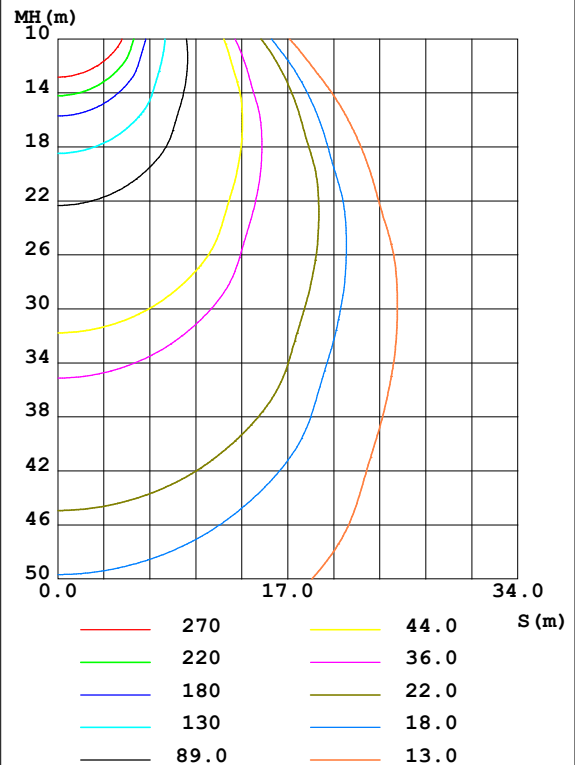
Test:U:219.94V I:2.6863A P:578.51W PF:0.9791 Freq:59.98Hz Lamp Flux:86172.7x1 lm		
NAME: LED High Bay Light	TYPE:Flood Light	WEIGHT:N/A
SPEC.:600W/5000K/Ra≥70	DIM.: 460*530mm	SERIAL No.:N/A
MFR.: Grin Industrial Co., Ltd.	SUR.:N/A	Shielding Angle:N/A

DATA OF LAMP		PHOTOMETRIC DATA Eff: 148.96 lm/W			
MODEL	GSM-90-U	I _{max} (cd)	44427	S/MH(C0/180)	1.14
NOMINAL POWER(W)	600	LOR(%)	100.0	S/MH(C90/270)	1.09
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	86173	□ UP,DN(C0-180)	0.0,50.2
NOMINAL FLUX(lm)	86172.7	CIE CLASS	DIRECT	□ UP,DN(C180-360)	0.0,49.8
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:2024-11-08

V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.411
Humidity:65%
Test Distance:6.918m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

°	C0	C45	C90	C135	C180	C225	C270	C315	°	□ zone	□ total	%lum, lamp
10	4328	4296	4309	4296	4354	4296	4304	4290	0- 10	4162	4162	4.83, 4.83
20	3988	4057	3893	4031	4040	4034	3884	4041	10- 20	11774	15936	18.5, 18.5
30	3261	3308	3194	3313	3350	3299	3182	3299	20- 30	16761	32697	37.9, 37.9
40	2587	2407	2480	2448	2659	2416	2444	2406	30- 40	18001	50697	58.8, 58.8
50	1802	1692	1721	1746	1877	1698	1678	1685	40- 50	16369	67066	77.8, 77.8
60	989.9	940.2	916.3	982.8	1073	936.3	884.2	928.3	50- 60	12033	79099	91.8, 91.8
70	103.2	306.8	340.0	310.9	111.2	283.7	326.3	299.4	60- 70	5853	84952	98.6, 98.6
80	27.52	22.42	0	21.11	30.83	17.97	0	20.94	70- 80	1177	86129	99.9, 99.9
90	1.227	0	0	0	1.190	0	0	0	80- 90	43.38	86173	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): 59268 lm

%lum = 68.8%

%lamp = 68.8%

Conical surface Flux(120deg): 79099 lm

%lum = 91.8%

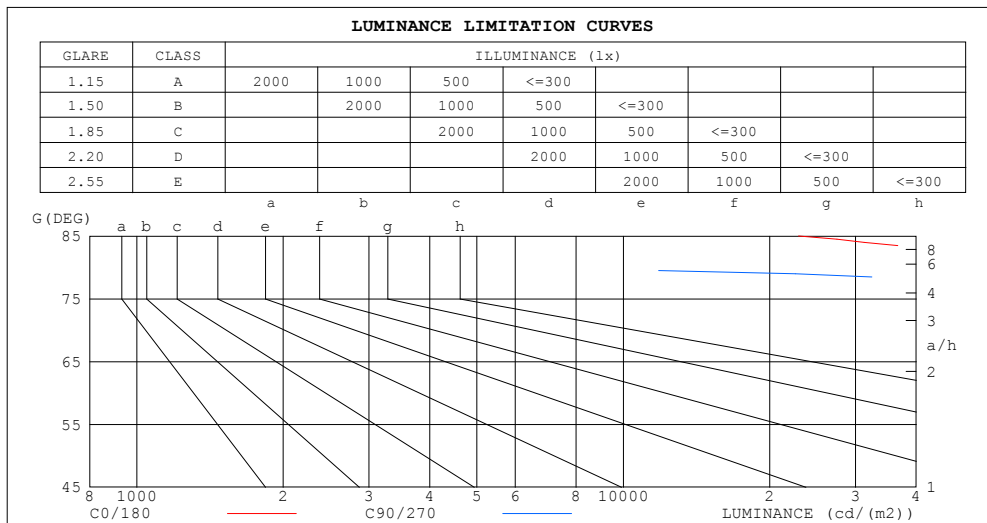
%lamp = 91.8%

H(□) Range:-90 - 90DEG
H(□) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jessy
Test Date:2024-11-08

V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.411
Humidity:65%
Test Distance:6.918m [K=1.0000]
Remarks:

LUMINANCE LIMITATION CURVES

Test:U:219.94V I:2.6863A P:578.51W PF:0.9791 Freq:59.98Hz Lamp Flux:86172.7x1 lm		
NAME: LED High Bay Light	TYPE:Flood Light	WEIGHT:N/A
SPEC.:600W/5000K/Ra≥70	DIM.: 460*530mm	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	22933	0
80	66032	0
75	96618	83240
70	125673	414146
65	329350	619563
60	824937	763606
55	1030852	958272
50	1167831	1115329
45	1295036	1251516

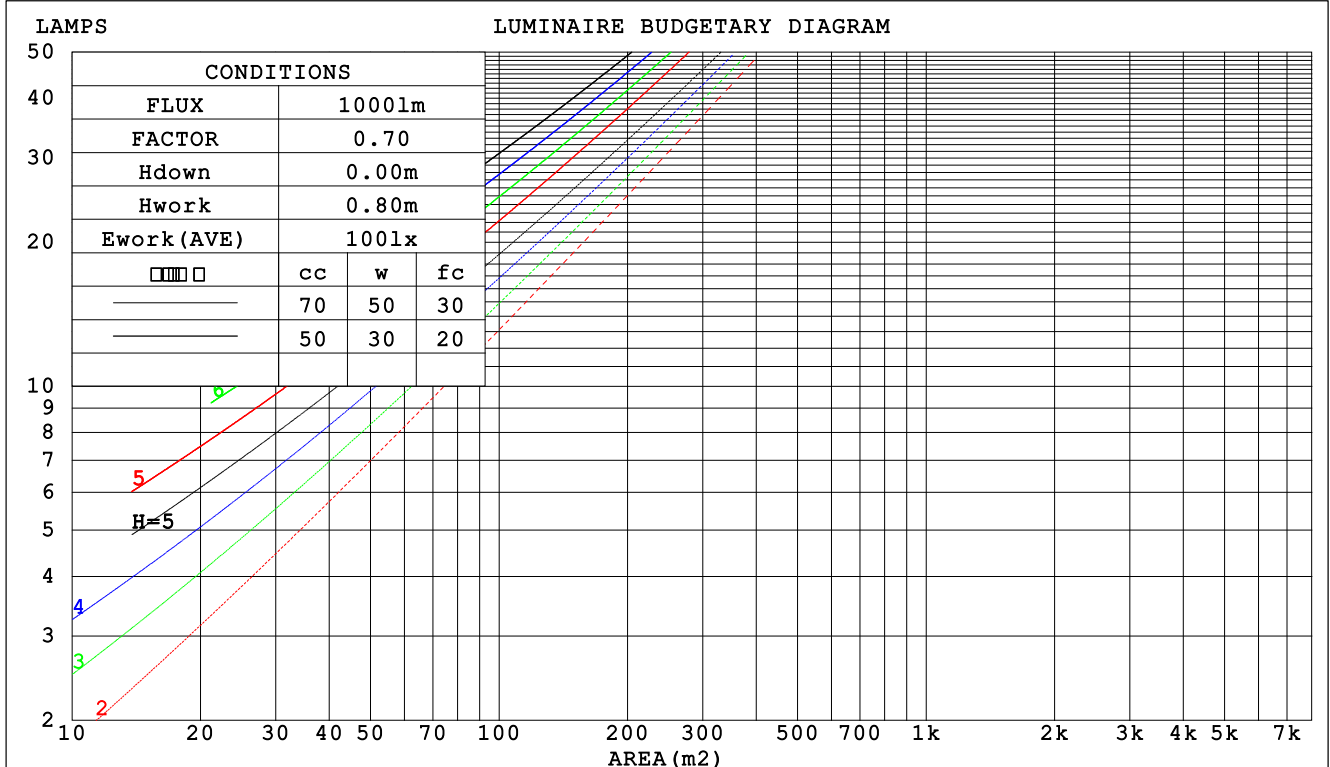
H(□) Range:-90 - 90DEG
H(□) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jessy
Test Date:2024-11-08

V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.411
Humidity:65%
Test Distance:6.918m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:219.94V I:2.6863A P:578.51W PF:0.9791 Freq:59.98Hz Lamp Flux:86172.7x1 lm		
NAME: LED High Bay Light	TYPE:Flood Light	WEIGHT:N/A
SPEC.:600W/5000K/Ra≥70	DIM.: 460*530mm	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:2024-11-08

V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.411
Humidity:65%
Test Distance:6.918m [K=1.0000]
Remarks:

WEC AND CCEC

Test:U:219.94V I:2.6863A P:578.51W PF:0.9791 Freq:59.98Hz Lamp Flux:86172.7x1 lm					
NAME: LED High Bay Light			TYPE:Flood Light		WEIGHT:N/A
SPEC.:600W/5000K/Ra≥70			DIM.: 460*530mm		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	.241	.137	.043	.234	.133	.042	.221	.127	.040	.209	.121	.039	.198	.115	.037	
2.0	.237	.130	.040	.231	.127	.039	.219	.122	.038	.209	.117	.037	.200	.113	.036	
3.0	.226	.120	.036	.221	.118	.036	.211	.114	.035	.202	.111	.034	.193	.107	.033	
4.0	.214	.111	.033	.209	.109	.032	.200	.106	.032	.192	.103	.031	.185	.100	.031	
5.0	.201	.103	.030	.197	.101	.029	.190	.099	.029	.182	.096	.029	.176	.094	.028	
6.0	.190	.095	.027	.186	.094	.027	.179	.092	.027	.173	.090	.026	.167	.088	.026	
7.0	.179	.088	.025	.176	.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	.051	.121	.077	.045	.083	.054	.032	.048	.032	.019	.016	.010	.006	
6.0	.134	.081	.043	.115	.070	.037	.080	.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:2024-11-08

V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.411
Humidity:65%
Test Distance:6.918m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

Test:U:219.94V I:2.6863A P:578.51W PF:0.9791 Freq:59.98Hz Lamp Flux:86172.7x1 lm										
NAME: LED High Bay Light					TYPE:Flood Light			WEIGHT:N/A		
SPEC.:600W/5000K/Ra≥70					DIM.: 460*530mm			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	20.9	22.3	21.2	22.4	22.6	20.7	22.0	20.9	22.2	22.4
3H	21.0	22.2	21.3	22.4	22.7	21.2	22.4	21.5	22.6	22.8
4H	20.9	22.1	21.2	22.3	22.5	21.1	22.3	21.4	22.5	22.8
6H	20.8	21.9	21.1	22.2	22.4	21.0	22.1	21.4	22.4	22.6
8H	20.8	21.8	21.1	22.1	22.4	21.0	22.0	21.3	22.3	22.6
12H	20.7	21.7	21.1	22.0	22.3	20.9	21.9	21.3	22.2	22.5
4H 2H	21.1	22.3	21.4	22.5	22.8	20.9	22.1	21.2	22.3	22.6
3H	21.3	22.3	21.6	22.6	22.9	21.5	22.5	21.9	22.8	23.1
4H	21.2	22.1	21.6	22.4	22.8	21.5	22.4	21.9	22.7	23.0
6H	21.1	21.9	21.5	22.3	22.6	21.4	22.2	21.8	22.5	22.9
8H	21.1	21.8	21.5	22.2	22.6	21.4	22.1	21.8	22.4	22.8
12H	21.1	21.7	21.5	22.1	22.5	21.3	22.0	21.7	22.4	22.8
8H 4H	21.2	21.9	21.6	22.3	22.6	21.4	22.1	21.8	22.5	22.9
6H	21.1	21.7	21.5	22.1	22.5	21.3	21.9	21.8	22.3	22.7
8H	21.1	21.6	21.5	22.0	22.5	21.3	21.8	21.7	22.2	22.7
12H	21.0	21.5	21.5	21.9	22.4	21.2	21.7	21.7	22.1	22.6
12H 4H	21.1	21.8	21.5	22.2	22.6	21.4	22.0	21.8	22.4	22.8
6H	21.1	21.6	21.5	22.0	22.4	21.3	21.8	21.7	22.2	22.7
8H	21.0	21.5	21.5	21.9	22.4	21.3	21.7	21.7	22.1	22.6
Variations with the observer position at spacings:										
S = 1.0H	+ 0.6 / - 0.9					+ 0.6 / - 0.7				
1.5H	+ 0.4 / - 0.8					+ 0.3 / - 0.5				
2.0H	+ 1.2 / - 1.3					+ 1.2 / - 1.7				

CIE Pub.117, 86173 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 15.5)
Area: 0.024 m2

H(□) Range:-90 - 90DEG
H(□) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jessy
Test Date:2024-11-08

V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.411
Humidity:65%
Test Distance:6.918m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:219.94V I:2.6863A P:578.51W PF:0.9791 Freq:59.98Hz Lamp Flux:86172.7x1 lm		
NAME: LED High Bay Light	TYPE:Flood Light	WEIGHT:N/A
SPEC.:600W/5000K/Ra≥70	DIM.: 460*530mm	SERIAL No.:N/A
MFR.: Grin Industrial Co., Ltd.	SUR.:N/A	Shielding Angle:N/A

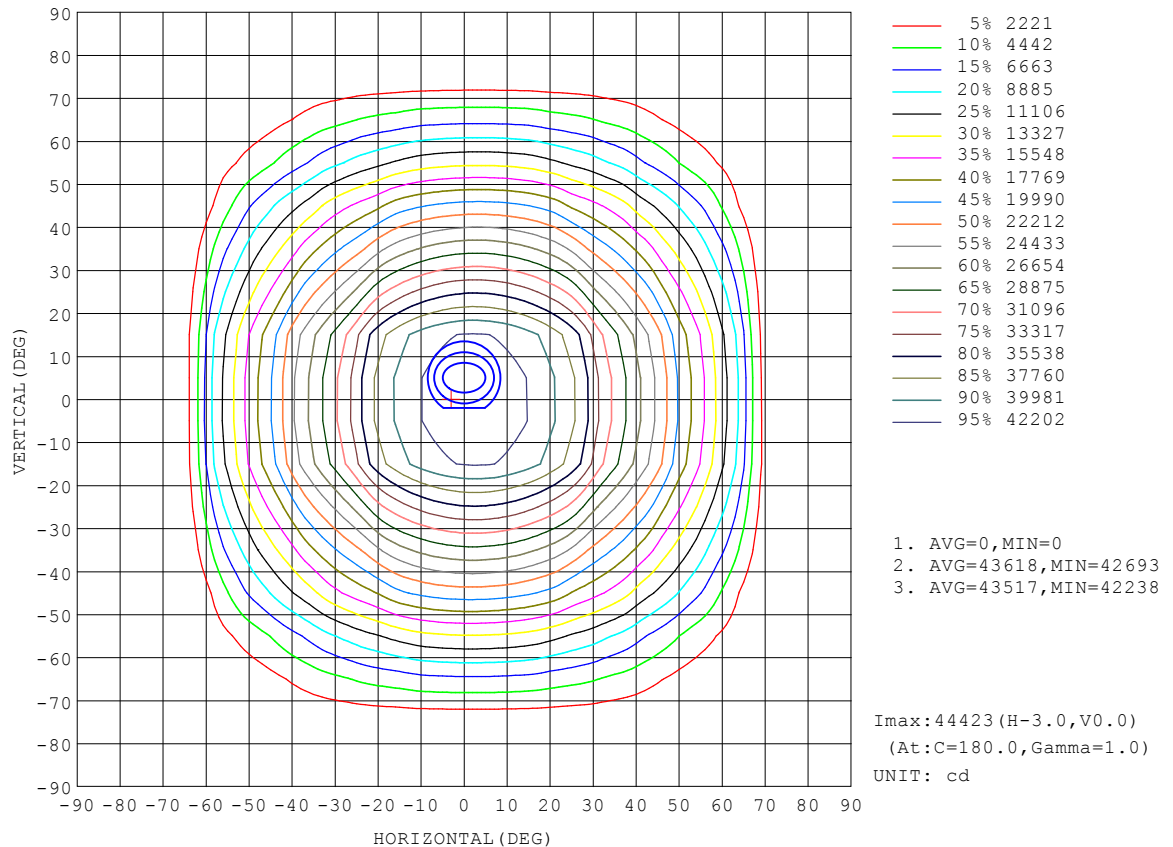
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	65	55	49	65	55	49	64	54	49	43
0.80	76	66	59	75	65	59	73	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	103	100	103	100	98	89
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:2024-11-08

V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.411
Humidity:65%
Test Distance:6.918m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

Test:U:219.94V I:2.6863A P:578.51W PF:0.9791 Freq:59.98Hz Lamp Flux:86172.7x1 lm		
NAME: LED High Bay Light	TYPE:Flood Light	WEIGHT:N/A
SPEC.:600W/5000K/Ra≥70	DIM.: 460*530mm	SERIAL No.:N/A
MFR.: Grin Industrial Co., Ltd.	SUR.:N/A	Shielding Angle:N/A

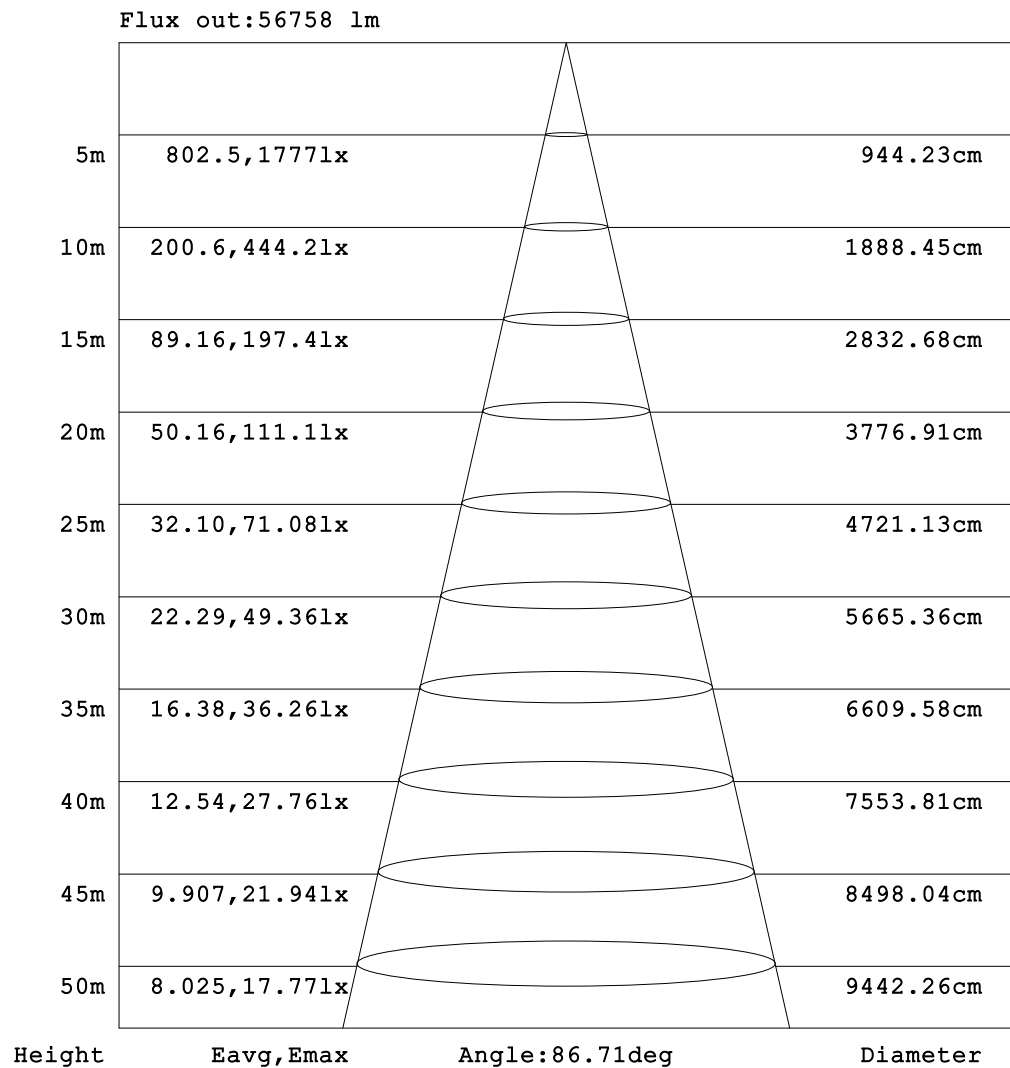


H(□) Range:-90 - 90DEG
H(□) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jessy
Test Date:2024-11-08

V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.411
Humidity:65%
Test Distance:6.918m [K=1.0000]
Remarks:

AAI Figure

Test:U:219.94V I:2.6863A P:578.51W PF:0.9791 Freq:59.98Hz Lamp Flux:86172.7x1 lm		
NAME: LED High Bay Light	TYPE:Flood Light	WEIGHT:N/A
SPEC.:600W/5000K/Ra≥70	DIM.: 460*530mm	SERIAL No.:N/A
MFR.: Grin Industrial Co., Ltd.	SUR.:N/A	Shielding Angle:N/A



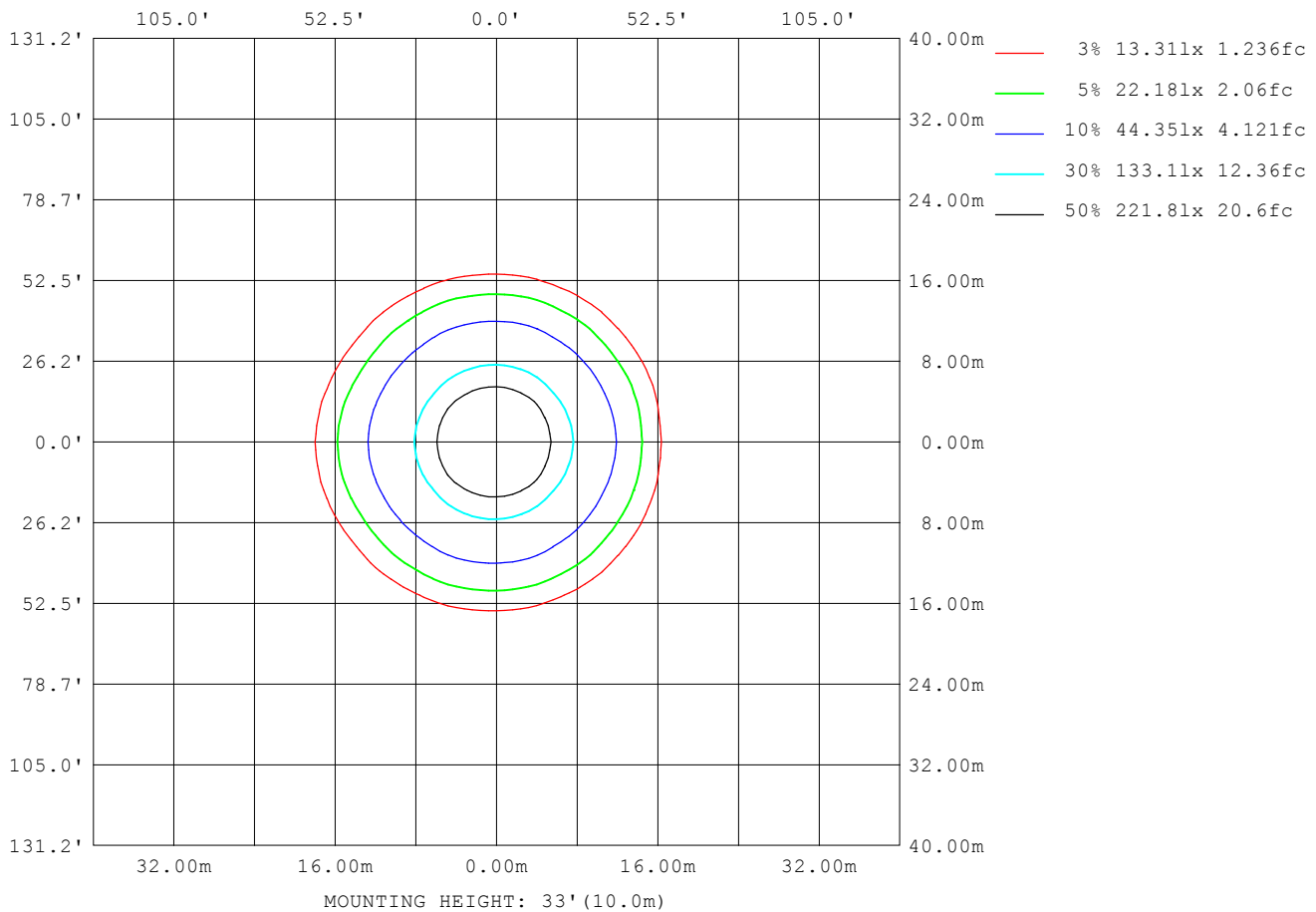
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

H(□) Range:-90 - 90DEG
H(□) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jessy
Test Date:2024-11-08

V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.411
Humidity:65%
Test Distance:6.918m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

Test:U:219.94V I:2.6863A P:578.51W PF:0.9791 Freq:59.98Hz Lamp Flux:86172.7x1 lm		
NAME: LED High Bay Light	TYPE:Flood Light	WEIGHT:N/A
SPEC.:600W/5000K/Ra≥70	DIM.: 460*530mm	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:2024-11-08

V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.411
Humidity:65%
Test Distance:6.918m [K=1.0000]
Remarks:

LED Avg.L Report

Test:U:219.94V I:2.6863A P:578.51W PF:0.9791 Freq:59.98Hz Lamp Flux:86172.7x1 lm		
NAME: LED High Bay Light	TYPE:Flood Light	WEIGHT:N/A
SPEC.:600W/5000K/Ra≥70	DIM.: 460*530mm	SERIAL No.:N/A
MFR.: Grin Industrial Co., Ltd.	SUR.:N/A	Shielding Angle:N/A

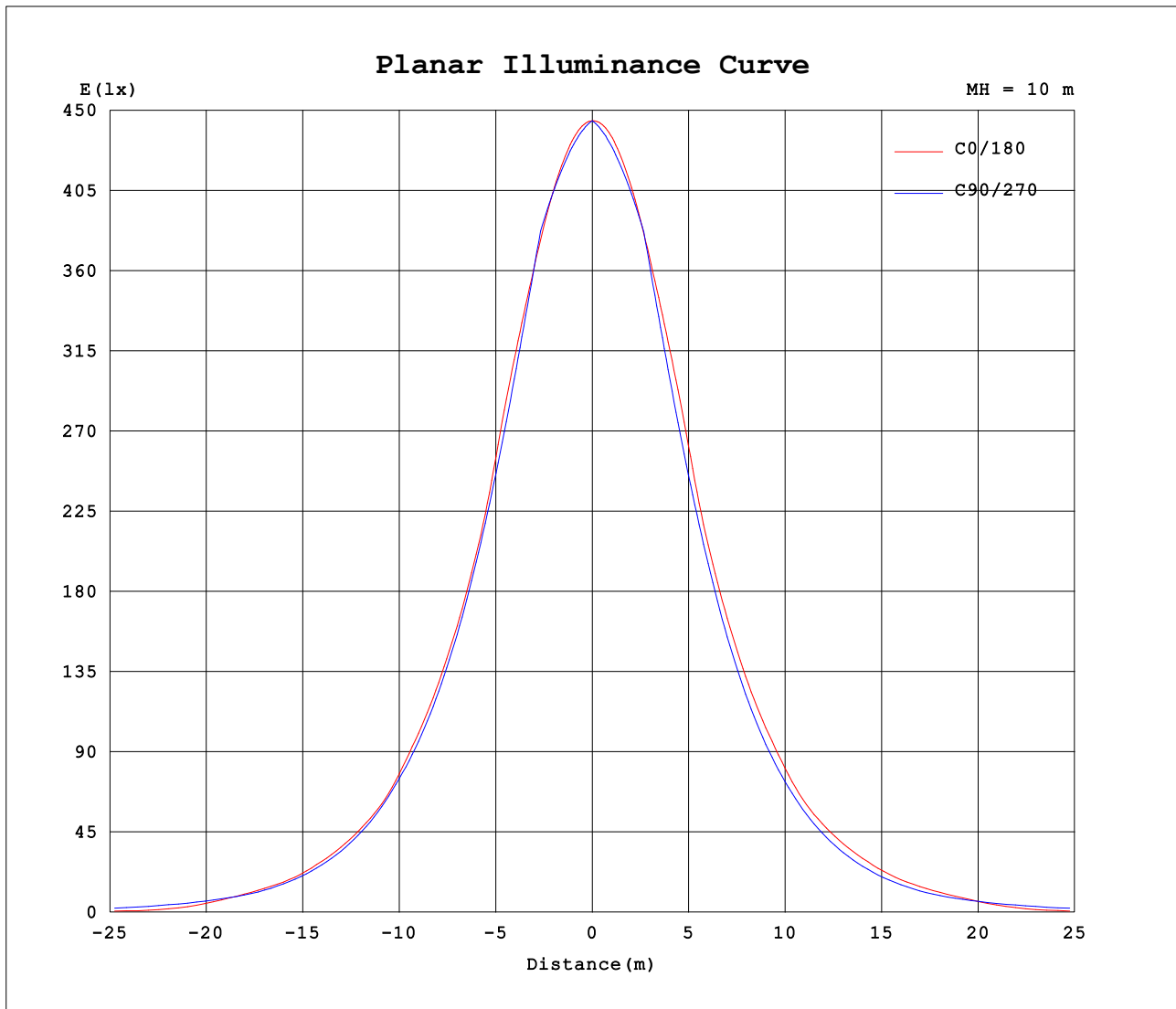
AvgL	cd/m2
L_0~180 (65) av	380929
L_0~180 (75) av	100547
L_0~180 (85) av	28868
L_90~270 (65) av	607978
L_90~270 (75) av	79738
L_90~270 (85) av	0
L_45 (65) av	569539
L_45 (75) av	229257
L_45 (85) av	0

Standard: GB/T 29293-2012

H(□) Range:-90 - 90DEG
H(□) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jessy
Test Date:2024-11-08

V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.411
Humidity:65%
Test Distance:6.918m [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:2024-11-08

V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.411
Humidity:65%
Test Distance:6.918m [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:6.918m [K=1.0000]
Remarks:
```

```
V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
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Humidity:65%
Test Distance:6.918m [K=1.0000]
Remarks:
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