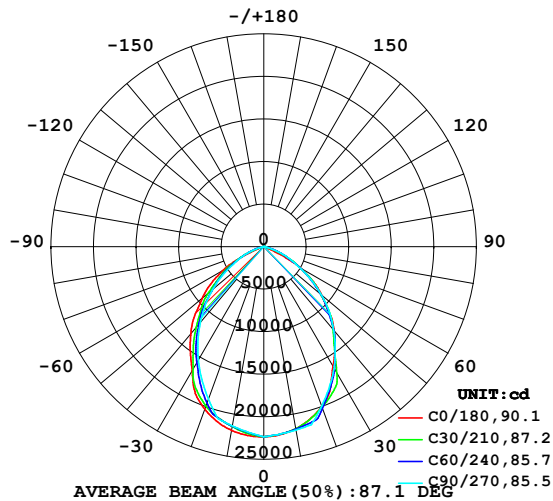


LUMINAIRE PHOTOMETRIC TEST REPORT

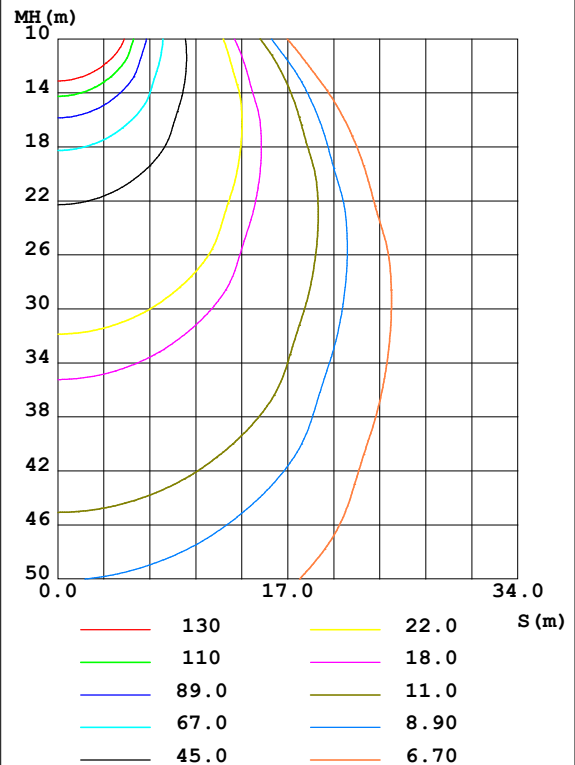
Test:U:220.07V I:1.3396A P:288.58W PF:0.9789 Freq:59.98Hz Lamp Flux:42968.1x1 lm		
NAME: LED High Bay Light	TYPE:Flood Light	WEIGHT:N/A
SPEC.:300W/5000K/Ra≥70	DIM.: 230*530mm	SERIAL No.:N/A
MFR.: Grin Industrial Co., Ltd.	SUR.:N/A	Shielding Angle:N/A

DATA OF LAMP		PHOTOMETRIC DATA Eff: 148.89 lm/W			
MODEL	GSM-45-U	I _{max} (cd)	22349	S/MH(C0/180)	1.14
NOMINAL POWER(W)	300	LOR(%)	100.0	S/MH(C90/270)	1.06
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	42968	□ UP,DN(C0-180)	0.0,51.3
NOMINAL FLUX(lm)	42968.1	CIE CLASS	DIRECT	□ UP,DN(C180-360)	0.0,48.7
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	2173	2173	2188	2176	2191	2144	2138	2139	0- 10	2092	2092	4.87, 4.87
20	1999	2060	1994	2054	2032	1997	1907	1995	10- 20	5911	8003	18.6, 18.6
30	1630	1682	1654	1692	1686	1630	1540	1613	20- 30	8403	16406	38.2, 38.2
40	1287	1231	1280	1252	1335	1189	1162	1158	30- 40	8996	25402	59.1, 59.1
50	891.9	870.1	886.1	887.5	944.9	827.8	785.7	786.1	40- 50	8127	33528	78, 78
60	488.3	480.4	472.0	508.9	543.7	450.0	411.4	416.9	50- 60	5945	39473	91.9, 91.9
70	49.96	162.5	176.9	171.3	57.82	134.0	150.9	126.0	60- 70	2891	42364	98.6, 98.6
80	12.31	11.73	0	11.78	16.14	8.391	0	8.687	70- 80	582.7	42947	100, 100
90	0.6196	0	0	0	0.5664	0	0	0	80- 90	21.21	42968	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): 29665 lm

%lum = 69.0%

%lamp = 69.0%

Conical surface Flux(120deg): 39473 lm

%lum = 91.9%

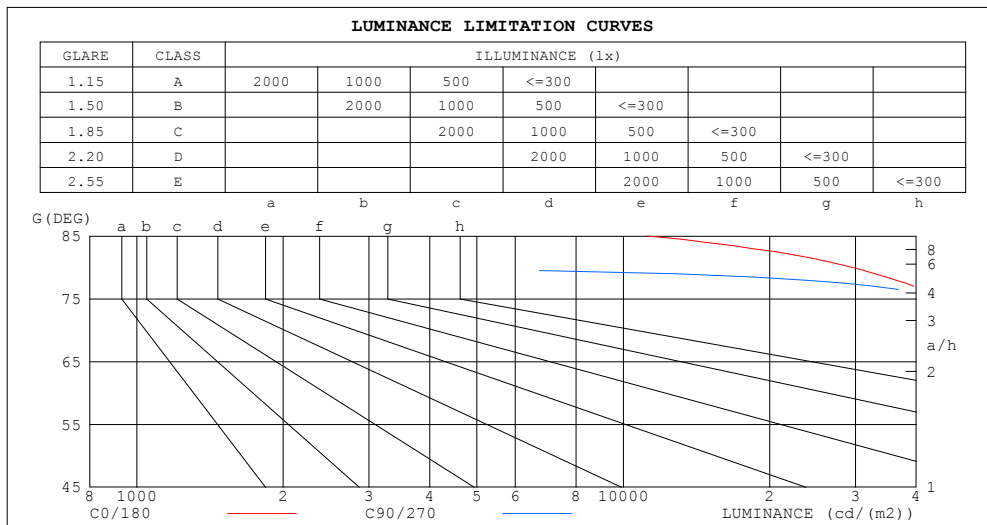
%lamp = 91.9%

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

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:220.07V I:1.3396A P:288.58W PF:0.9789 Freq:59.98Hz Lamp Flux:42968.1x1 lm		
NAME: LED High Bay Light	TYPE:Flood Light	WEIGHT:N/A
SPEC.:300W/5000K/Ra≥70	DIM.: 230*530mm	SERIAL No.:N/A
MFR.: Grin Industrial Co., Ltd.	SUR.:N/A	Shielding Angle:N/A



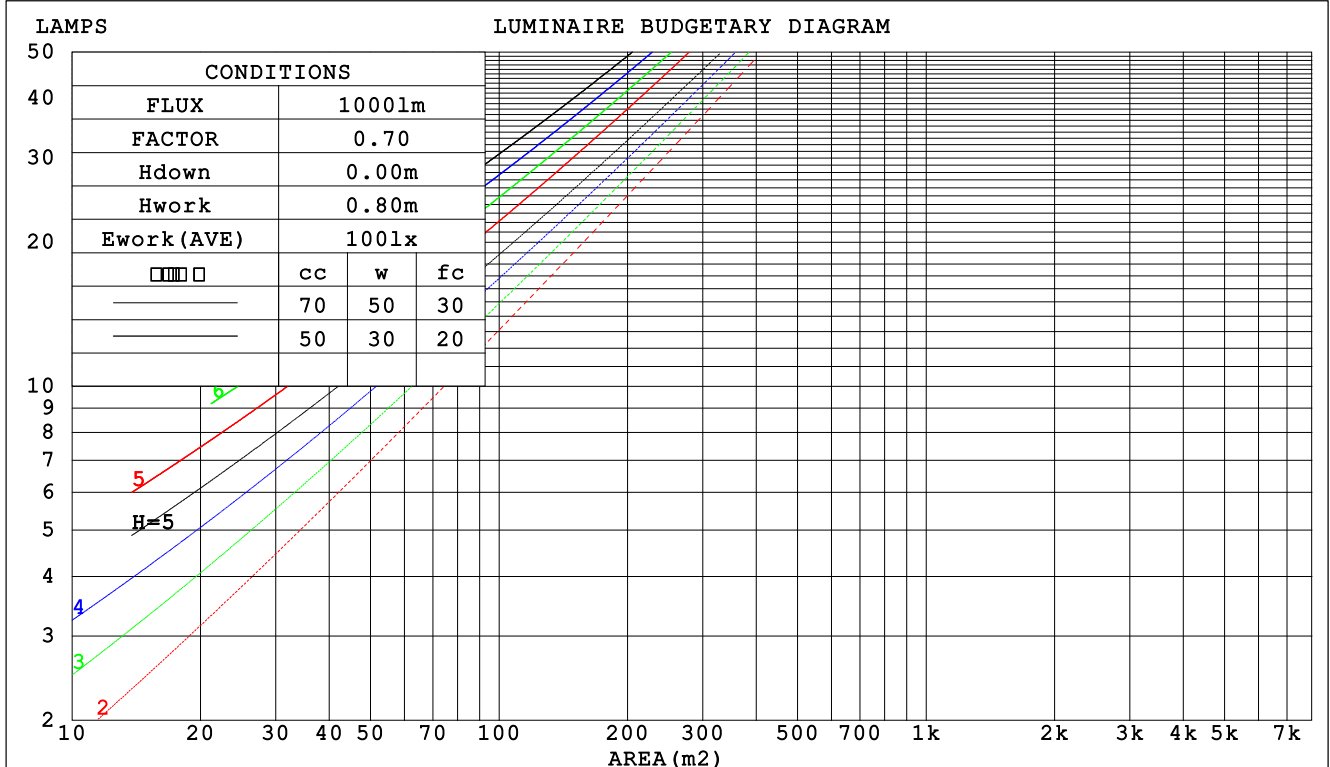
H(□) Range:-90 - 90DEG
H(□) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jessy
Test Date:2024-11-08

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:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:220.07V I:1.3396A P:288.58W PF:0.9789 Freq:59.98Hz Lamp Flux:42968.1x1 lm		
NAME: LED High Bay Light	TYPE:Flood Light	WEIGHT:N/A
SPEC.:300W/5000K/Ra≥70	DIM.: 230*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:220.07V I:1.3396A P:288.58W PF:0.9789 Freq:59.98Hz Lamp Flux:42968.1x1 lm					
NAME: LED High Bay Light			TYPE:Flood Light		WEIGHT:N/A
SPEC.:300W/5000K/Ra≥70			DIM.: 230*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	.240	.137	.043	.233	.133	.042	.220	.126	.040	.209	.120	.039	.198	.115	.037		
2.0	.236	.129	.040	.230	.127	.039	.219	.122	.038	.209	.117	.037	.199	.113	.035		
3.0	.225	.120	.036	.220	.118	.035	.210	.114	.035	.201	.110	.034	.193	.107	.033		
4.0	.213	.111	.033	.209	.109	.032	.200	.106	.032	.192	.103	.031	.184	.100	.031		
5.0	.201	.102	.030	.197	.101	.029	.189	.098	.029	.182	.096	.029	.175	.094	.028		
6.0	.189	.095	.027	.186	.094	.027	.179	.092	.027	.172	.090	.026	.166	.088	.026		
7.0	.178	.088	.025	.175	.087	.025	.169	.085	.025	.163	.084	.024	.158	.082	.024		
8.0	.168	.082	.023	.166	.081	.023	.160	.080	.023	.155	.078	.023	.150	.077	.022		
9.0	.159	.077	.022	.157	.076	.021	.152	.075	.021	.147	.074	.021	.143	.072	.021		
10.0	.151	.072	.020	.149	.072	.020	.144	.071	.020	.140	.069	.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	.175	.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	.024	.069	.038	.017	.040	.023	.010	.013	.007	.003	
10.0	.111	.059	.024	.096	.051	.021	.066	.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:220.07V I:1.3396A P:288.58W PF:0.9789 Freq:59.98Hz Lamp Flux:42968.1x1 lm										
NAME: LED High Bay Light					TYPE:Flood Light			WEIGHT:N/A		
SPEC.:300W/5000K/Ra≥70					DIM.: 230*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	21.0	22.3	21.3	22.5	22.7	20.9	22.2	21.1	22.4	22.6
3H	21.0	22.2	21.3	22.5	22.7	21.4	22.6	21.7	22.8	23.0
4H	20.9	22.1	21.2	22.3	22.6	21.3	22.5	21.6	22.7	23.0
6H	20.8	21.9	21.2	22.2	22.4	21.2	22.3	21.6	22.6	22.8
8H	20.8	21.8	21.1	22.1	22.4	21.2	22.2	21.5	22.5	22.8
12H	20.7	21.7	21.1	22.0	22.3	21.1	22.1	21.5	22.4	22.7
4H 2H	21.2	22.4	21.5	22.6	22.9	21.1	22.3	21.4	22.5	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	23.2
6H	21.2	22.0	21.6	22.3	22.7	21.6	22.4	22.0	22.7	23.1
8H	21.1	21.9	21.6	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	21.2	21.7	21.6	22.1	22.6	21.5	22.1	22.0	22.5	23.0
8H	21.1	21.6	21.6	22.1	22.5	21.5	22.0	22.0	22.4	22.9
12H	21.1	21.5	21.5	22.0	22.4	21.5	21.9	21.9	22.3	22.8
12H 4H	21.2	21.8	21.6	22.2	22.6	21.6	22.2	22.0	22.6	23.0
6H	21.1	21.6	21.6	22.1	22.5	21.5	22.0	22.0	22.4	22.9
8H	21.1	21.5	21.5	22.0	22.4	21.5	21.9	21.9	22.3	22.8
Variations with the observer position at spacings:										
S = 1.0H	+ 0.7 / - 1.0					+ 0.5 / - 0.7				
1.5H	+ 0.4 / - 0.8					+ 0.3 / - 0.5				
2.0H	+ 1.1 / - 1.3					+ 1.2 / - 1.8				

CIE Pub.117, 42968 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 13.1)
Area: 0.024 m2

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

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:220.07V I:1.3396A P:288.58W PF:0.9789 Freq:59.98Hz Lamp Flux:42968.1x1 lm		
NAME: LED High Bay Light	TYPE:Flood Light	WEIGHT:N/A
SPEC.:300W/5000K/Ra≥70	DIM.: 230*530mm	SERIAL No.:N/A
MFR.: Grin Industrial Co., Ltd.	SUR.:N/A	Shielding Angle:N/A

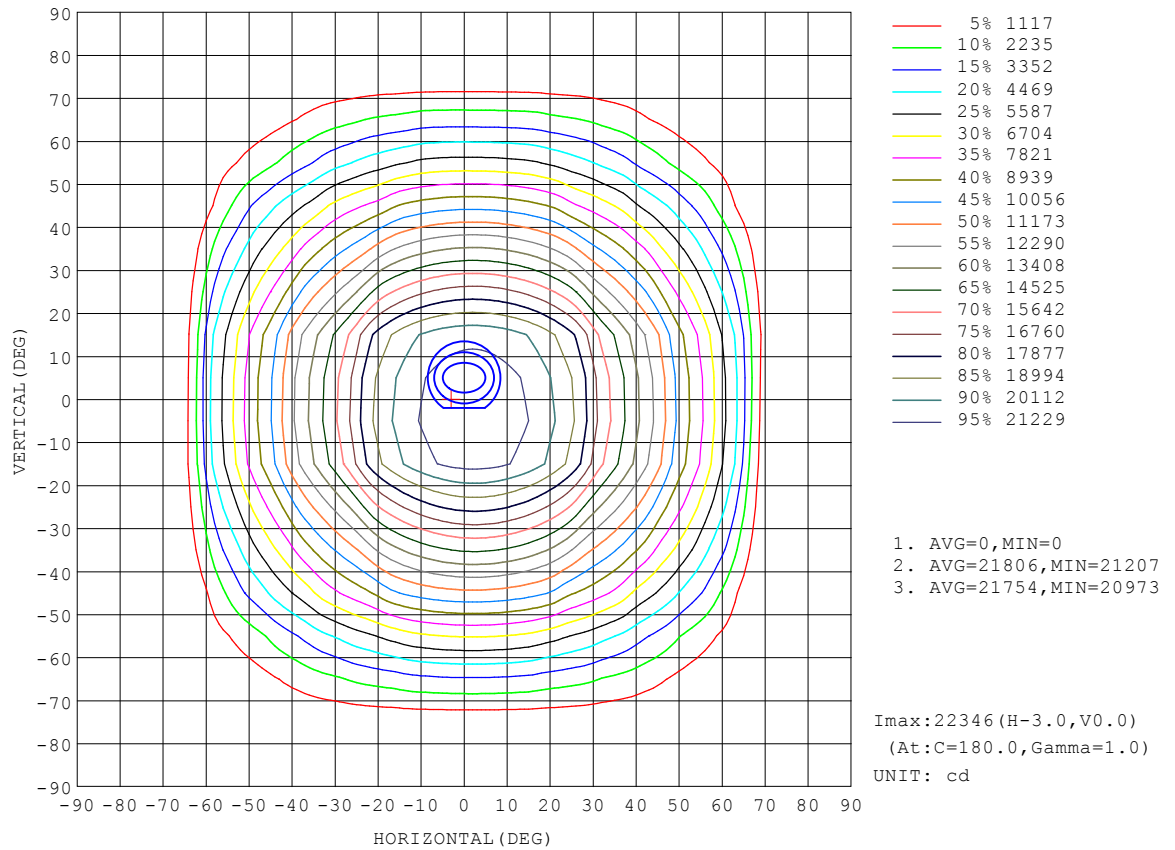
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	65	55	49	65	55	49	64	55	49	43
0.80	76	66	60	75	65	59	73	65	59	53
1.00	84	75	69	83	74	69	81	75	68	62
1.25	91	82	76	89	82	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:2024-11-08

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:220.07V I:1.3396A P:288.58W PF:0.9789 Freq:59.98Hz Lamp Flux:42968.1x1 lm		
NAME: LED High Bay Light	TYPE:Flood Light	WEIGHT:N/A
SPEC.:300W/5000K/Ra≥70	DIM.: 230*530mm	SERIAL No.:N/A
MFR.: Grin Industrial Co., Ltd.	SUR.:N/A	Shielding Angle:N/A

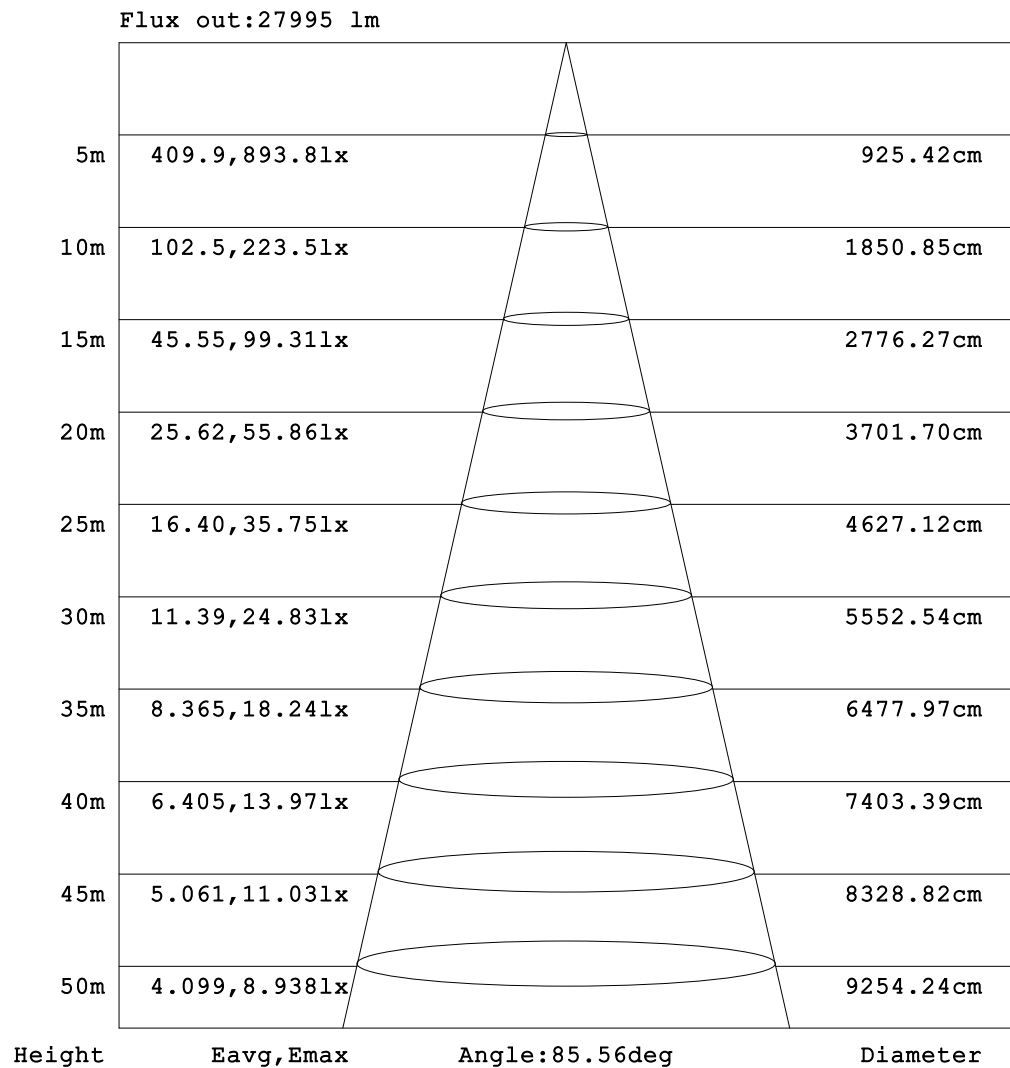


H(□) Range:-90 - 90DEG
H(□) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jessy
Test Date:2024-11-08

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:220.07V I:1.3396A P:288.58W PF:0.9789 Freq:59.98Hz Lamp Flux:42968.1x1 lm		
NAME: LED High Bay Light	TYPE:Flood Light	WEIGHT:N/A
SPEC.:300W/5000K/Ra≥70	DIM.: 230*530mm	SERIAL No.:N/A
MFR.: Grin Industrial Co., Ltd.	SUR.:N/A	Shielding Angle:N/A



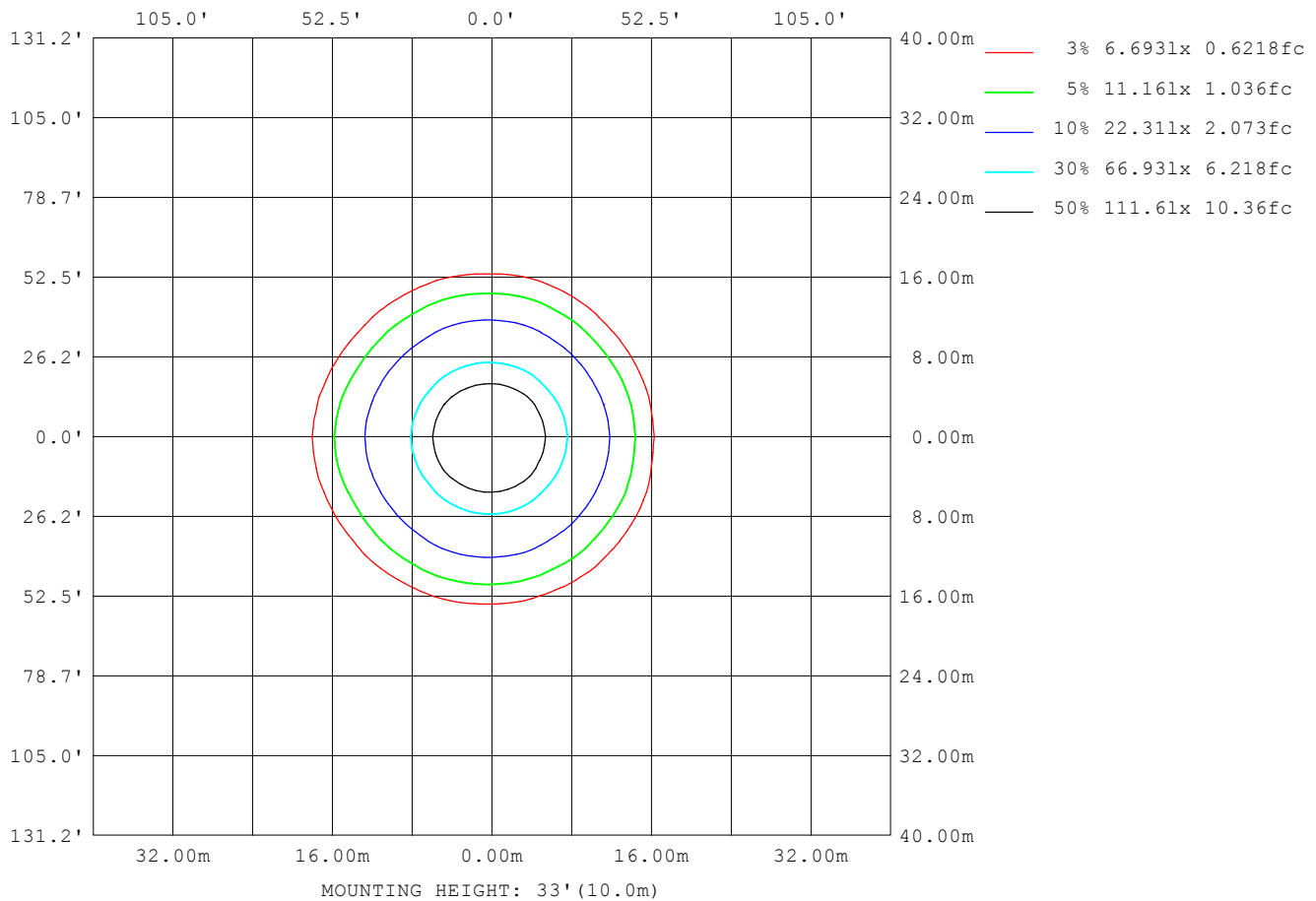
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:220.07V I:1.3396A P:288.58W PF:0.9789 Freq:59.98Hz Lamp Flux:42968.1x1 lm		
NAME: LED High Bay Light	TYPE:Flood Light	WEIGHT:N/A
SPEC.:300W/5000K/Ra≥70	DIM.: 230*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:220.07V I:1.3396A P:288.58W PF:0.9789 Freq:59.98Hz Lamp Flux:42968.1x1 lm		
NAME: LED High Bay Light	TYPE:Flood Light	WEIGHT:N/A
SPEC.:300W/5000K/Ra≥70	DIM.: 230*530mm	SERIAL No.:N/A
MFR.: Grin Industrial Co., Ltd.	SUR.:N/A	Shielding Angle:N/A

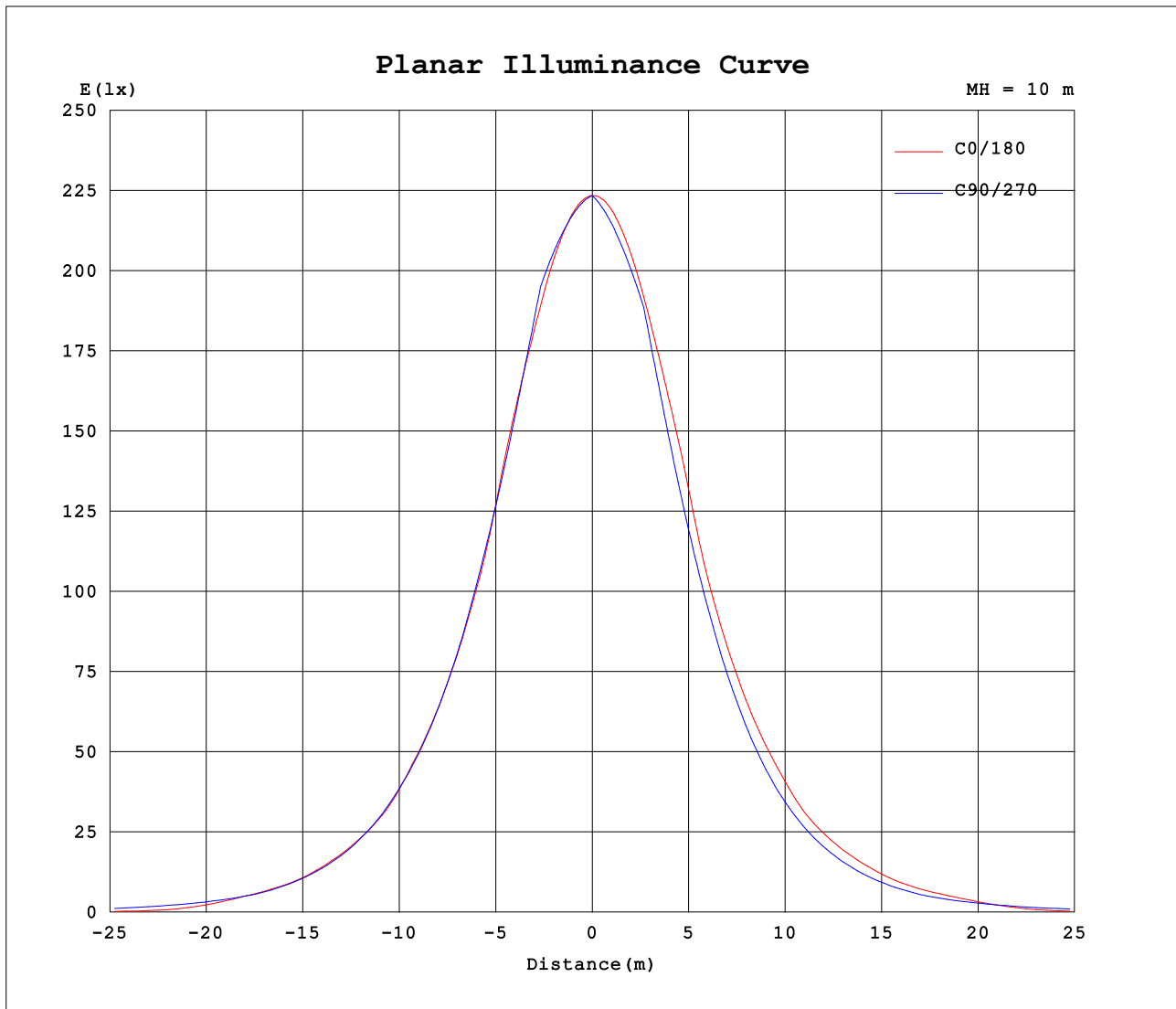
AvgL	cd/m2
L_0~180 (65) av	195464
L_0~180 (75) av	49945
L_0~180 (85) av	15588
L_90~270 (65) av	298769
L_90~270 (75) av	40277
L_90~270 (85) av	0
L_45 (65) av	279840
L_45 (75) av	113440
L_45 (85) av	0

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
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
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.411
Humidity:65%
Test Distance:6.918m [K=1.0000]
Remarks:
```