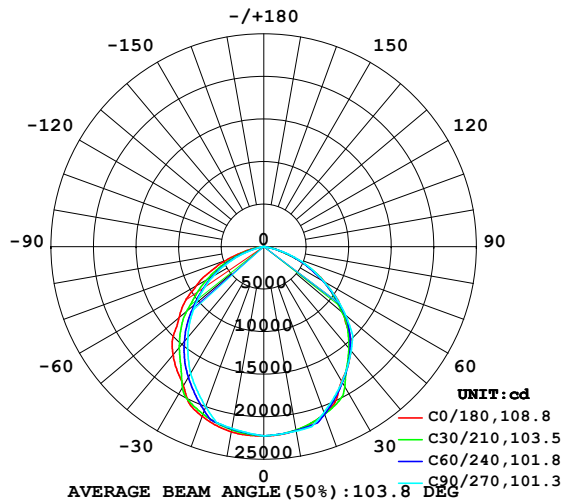


LUMINAIRE PHOTOMETRIC TEST REPORT

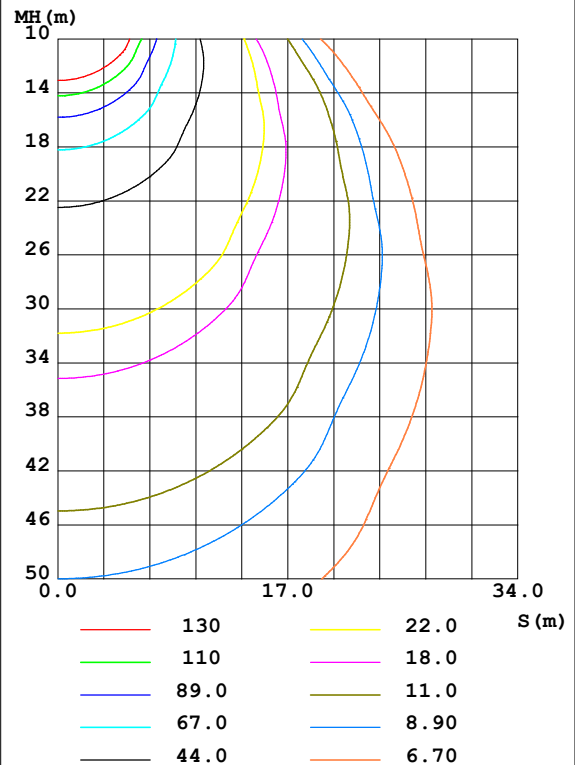
Test:U:119.92V I:3.3275A P:398.27W PF:0.9981 Freq:59.98Hz Lamp Flux:55146.1x1 lm		
NAME: LED High Bay Light	TYPE:Flood Light	WEIGHT:N/A
SPEC.:400W/110°	DIM.: 310*500mm	SERIAL No.:N/A
MFR.: Grin Industrial Co., Ltd.	SUR.:N/A	Shielding Angle:N/A

DATA OF LAMP		PHOTOMETRIC DATA Eff: 138.46 lm/W			
MODEL	GSM-60-U	I _{max} (cd)	22246	S/MH(C0/180)	1.26
NOMINAL POWER(W)	400	LOR(%)	100.0	S/MH(C90/270)	1.16
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	55146	□ UP,DN(C0-180)	0.0,52.2
NOMINAL FLUX(lm)	55146.1	CIE CLASS	DIRECT	□ UP,DN(C180-360)	0.0,47.8
LAMPS INSIDE	1	□ up(%)	0.0	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	120	□ down(%)	100.0	CIBSE SHR MAX	1.35

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:2024-11-11

V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.411
Humidity:65%
Test Distance:6.938m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

°	C0	C45	C90	C135	C180	C225	C270	C315	°	□ zone	□ total	%lum, lamp
10	2192	2190	2201	2202	2209	2179	2169	2167	0- 10	2102	2102	3.81, 3.81
20	2090	2120	2072	2143	2122	2097	2001	2074	10- 20	6069	8171	14.8, 14.8
30	1831	1876	1839	1917	1888	1834	1722	1798	20- 30	9089	17260	31.3, 31.3
40	1594	1525	1599	1591	1659	1465	1389	1415	30- 40	10591	27850	50.5, 50.5
50	1222	1221	1256	1288	1301	1114	1041	1060	40- 50	10621	38471	69.8, 69.8
60	822.4	804.0	810.5	876.5	912.7	713.8	678.3	650.6	50- 60	8847	47318	85.8, 85.8
70	381.4	371.5	410.9	427.9	467.2	338.1	289.3	293.4	60- 70	5680	52999	96.1, 96.1
80	54.35	57.10	0	80.64	96.84	36.69	0	23.41	70- 80	2052	55051	99.8, 99.8
90	1.410	0	0	0	1.282	0	0	0	80- 90	95.34	55146	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): 33271 lm

%lum = 60.3%

%lamp = 60.3%

Conical surface Flux(120deg): 47318 lm

%lum = 85.8%

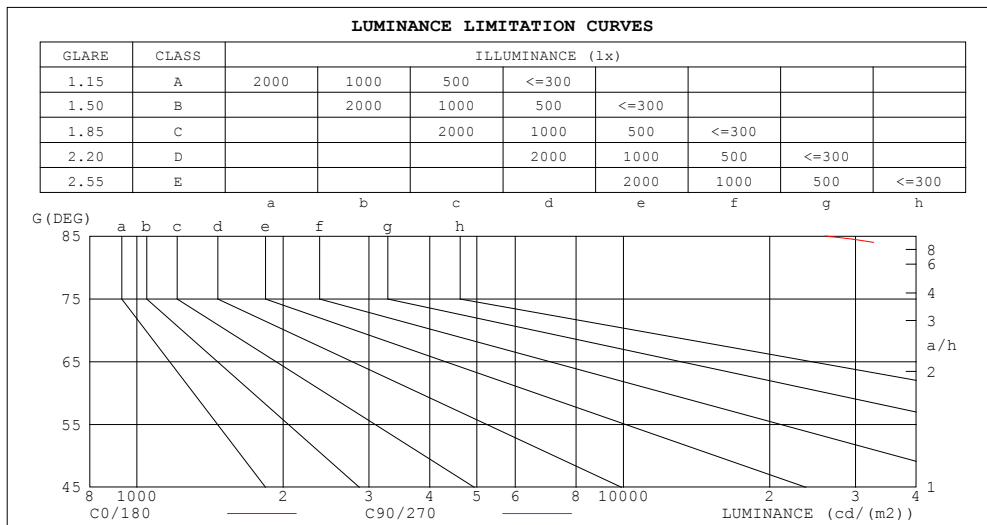
%lamp = 85.8%

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

V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.411
Humidity: 65%
Test Distance: 6.938m [K=1.0000]
Remarks:

LUMINANCE LIMITATION CURVES

Test:U:119.92V I:3.3275A P:398.27W PF:0.9981 Freq:59.98Hz Lamp Flux:55146.1x1 lm		
NAME: LED High Bay Light	TYPE:Flood Light	WEIGHT:N/A
SPEC.:400W/110°	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	26007	0
80	130405	0
75	302179	339835
70	464587	500562
65	584688	602078
60	685351	675392
55	756301	750450
50	792271	813931
45	834671	871056

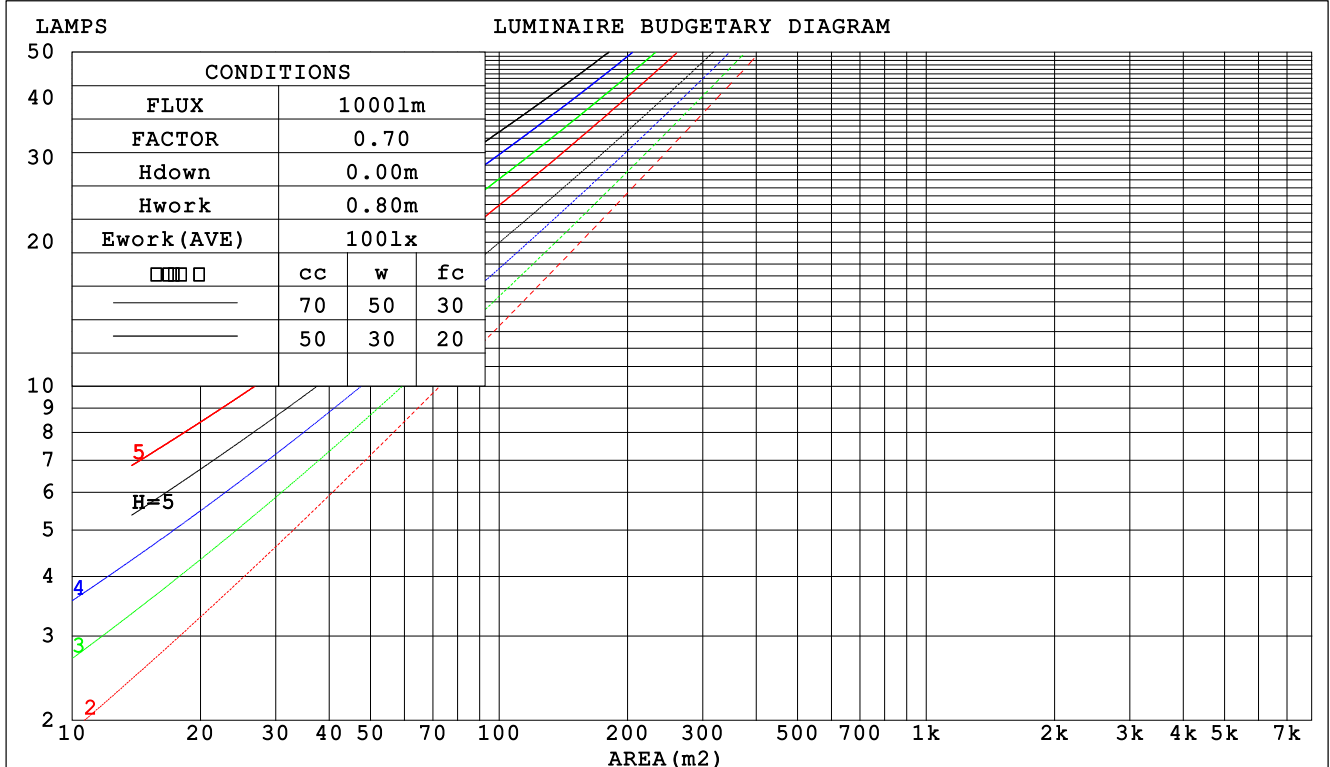
H(□) Range:-90 - 90DEG
H(□) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jessy
Test Date:2024-11-11

V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.411
Humidity:65%
Test Distance:6.938m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:119.92V I:3.3275A P:398.27W PF:0.9981 Freq:59.98Hz Lamp Flux:55146.1x1 lm		
NAME: LED High Bay Light	TYPE:Flood Light	WEIGHT:N/A
SPEC.:400W/110°	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:2024-11-11

V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.411
Humidity:65%
Test Distance:6.938m [K=1.0000]
Remarks:

WEC AND CCEC

Test:U:119.92V I:3.3275A P:398.27W PF:0.9981 Freq:59.98Hz Lamp Flux:55146.1x1 lm					
NAME: LED High Bay Light			TYPE:Flood Light		WEIGHT:N/A
SPEC.:400W/110°			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	.269	.153	.048	.262	.149	.047	.249	.143	.046	.237	.137	.044	.226	.131	.042		
2.0	.262	.144	.044	.256	.141	.043	.245	.136	.042	.234	.131	.041	.224	.127	.040		
3.0	.248	.132	.040	.243	.130	.039	.232	.126	.038	.223	.122	.037	.214	.119	.037		
4.0	.232	.121	.035	.227	.119	.035	.219	.116	.035	.210	.113	.034	.203	.110	.034		
5.0	.217	.111	.032	.213	.109	.032	.205	.107	.031	.198	.104	.031	.191	.102	.031		
6.0	.203	.102	.029	.199	.101	.029	.192	.098	.029	.186	.096	.028	.179	.094	.028		
7.0	.190	.094	.027	.187	.093	.027	.181	.091	.026	.175	.090	.026	.169	.088	.026		
8.0	.179	.087	.025	.176	.086	.024	.170	.085	.024	.165	.083	.024	.160	.082	.024		
9.0	.168	.081	.023	.165	.081	.023	.160	.079	.022	.155	.078	.022	.151	.077	.022		
10.0	.159	.076	.021	.156	.075	.021	.152	.074	.021	.147	.073	.021	.143	.072	.021		

□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	.177	.156	.138	.152	.134	.118	.104	.092	.082	.060	.053	.048	.019	.017	.015	
2.0	.168	.132	.102	.144	.114	.088	.099	.079	.061	.057	.046	.036	.018	.015	.012	
3.0	.160	.114	.077	.137	.098	.067	.094	.068	.047	.054	.040	.028	.018	.013	.009	
4.0	.153	.101	.061	.131	.087	.053	.090	.061	.037	.052	.035	.022	.017	.012	.007	
5.0	.145	.090	.049	.125	.078	.043	.086	.054	.030	.050	.032	.018	.016	.010	.006	
6.0	.139	.082	.041	.119	.071	.035	.082	.049	.025	.048	.029	.015	.015	.010	.005	
7.0	.132	.075	.034	.114	.065	.030	.079	.045	.021	.046	.027	.013	.015	.009	.004	
8.0	.126	.069	.030	.108	.060	.026	.075	.042	.018	.044	.025	.011	.014	.008	.004	
9.0	.120	.064	.026	.104	.055	.023	.072	.039	.016	.042	.023	.010	.014	.008	.003	
10.0	.115	.060	.023	.099	.052	.020	.069	.036	.014	.040	.022	.009	.013	.007	.003	

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

V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.411
Humidity:65%
Test Distance:6.938m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

Test:U:119.92V I:3.3275A P:398.27W PF:0.9981 Freq:59.98Hz Lamp Flux:55146.1x1 lm										
NAME: LED High Bay Light					TYPE:Flood Light			WEIGHT:N/A		
SPEC.:400W/110°					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	21.9	23.3	22.2	23.5	23.7	21.9	23.4	22.2	23.6	23.8
3H	22.8	24.1	23.1	24.4	24.6	22.9	24.2	23.2	24.5	24.7
4H	23.0	24.3	23.3	24.5	24.7	23.1	24.4	23.4	24.6	24.9
6H	23.0	24.2	23.3	24.4	24.7	23.1	24.3	23.4	24.5	24.8
8H	22.9	24.1	23.3	24.4	24.6	23.0	24.2	23.4	24.4	24.7
12H	22.9	24.0	23.2	24.3	24.6	23.0	24.1	23.3	24.4	24.7
4H 2H	22.3	23.6	22.6	23.8	24.1	22.3	23.6	22.6	23.8	24.1
3H	23.4	24.5	23.7	24.7	25.0	23.5	24.5	23.8	24.8	25.1
4H	23.6	24.6	24.0	24.9	25.2	23.7	24.7	24.1	25.0	25.4
6H	23.6	24.5	24.0	24.9	25.2	23.7	24.6	24.1	24.9	25.3
8H	23.6	24.4	24.0	24.8	25.2	23.7	24.5	24.1	24.8	25.2
12H	23.6	24.3	24.0	24.7	25.1	23.6	24.4	24.0	24.7	25.1
8H 4H	23.7	24.5	24.1	24.8	25.2	23.8	24.6	24.2	24.9	25.3
6H	23.7	24.4	24.2	24.8	25.2	23.8	24.4	24.2	24.8	25.3
8H	23.7	24.3	24.2	24.7	25.2	23.7	24.3	24.2	24.7	25.2
12H	23.7	24.2	24.2	24.6	25.1	23.7	24.2	24.2	24.6	25.1
12H 4H	23.6	24.4	24.0	24.7	25.1	23.7	24.5	24.2	24.8	25.2
6H	23.7	24.3	24.2	24.7	25.2	23.7	24.3	24.2	24.7	25.2
8H	23.7	24.2	24.2	24.6	25.1	23.7	24.2	24.2	24.6	25.1
Variations with the observer position at spacings:										
S = 1.0H	+ 0.3 / - 0.4					+ 0.3 / - 0.4				
1.5H	+ 0.3 / - 0.5					+ 0.2 / - 0.5				
2.0H	+ 0.6 / - 0.4					+ 0.7 / - 0.7				

CIE Pub.117, 55146 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 13.9)
Area: 0.024 m2

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

V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.411
Humidity:65%
Test Distance:6.938m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:119.92V I:3.3275A P:398.27W PF:0.9981 Freq:59.98Hz Lamp Flux:55146.1x1 lm		
NAME: LED High Bay Light	TYPE:Flood Light	WEIGHT:N/A
SPEC.:400W/110°	DIM.: 310*500mm	SERIAL No.:N/A
MFR.: Grin Industrial Co., Ltd.	SUR.:N/A	Shielding Angle:N/A

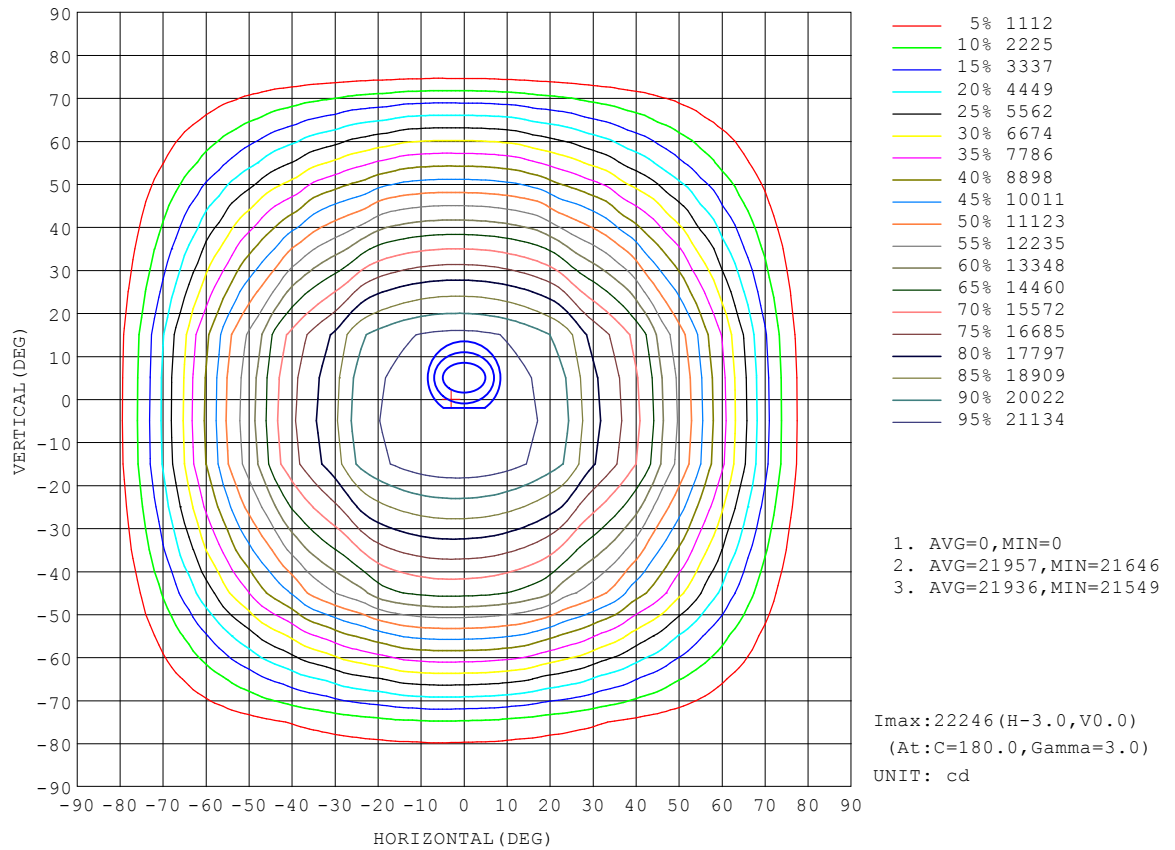
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	61	49	43	60	49	43	59	49	43	36
0.80	71	60	53	70	60	53	68	59	53	46
1.00	80	69	62	78	69	62	76	70	62	55
1.25	87	77	70	85	76	70	83	75	69	63
1.50	91	82	76	90	82	76	87	80	75	68
2.00	98	90	85	96	89	84	93	87	82	75
2.50	101	95	89	99	93	88	96	91	86	79
3.00	105	99	94	102	97	93	99	94	90	82
4.00	108	103	99	106	101	98	102	98	95	87
5.00	110	106	103	108	104	101	104	101	98	89
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:2024-11-11

V(B) Range:-75 - 75DEG
 V(B) Interval: 5.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.411
 Humidity:65%
 Test Distance:6.938m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:119.92V I:3.3275A P:398.27W PF:0.9981 Freq:59.98Hz Lamp Flux:55146.1x1 lm		
NAME: LED High Bay Light	TYPE:Flood Light	WEIGHT:N/A
SPEC.:400W/110°	DIM.: 310*500mm	SERIAL No.:N/A
MFR.: Grin Industrial Co., Ltd.	SUR.:N/A	Shielding Angle:N/A

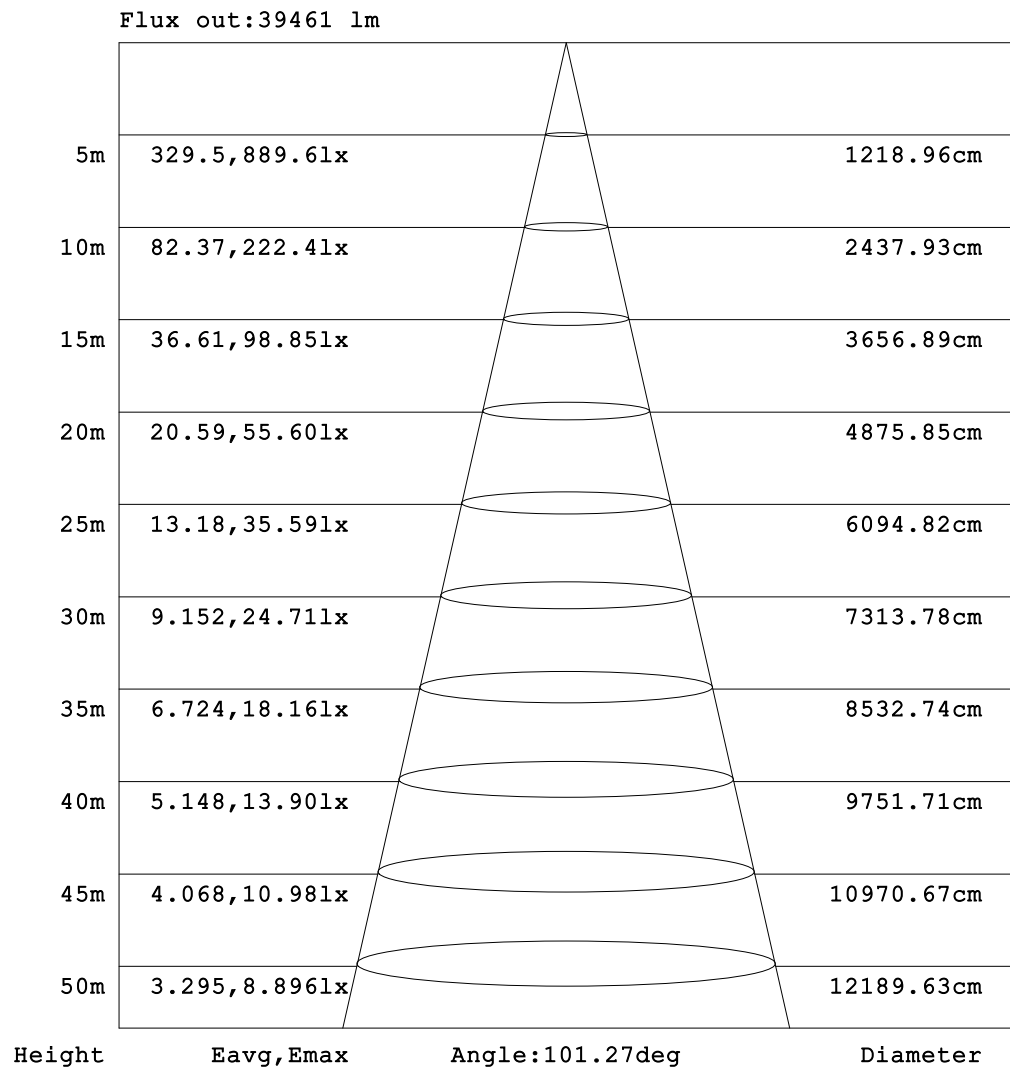


H(□) Range:-90 - 90DEG
H(□) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jessy
Test Date:2024-11-11

V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.411
Humidity:65%
Test Distance:6.938m [K=1.0000]
Remarks:

AAI Figure

Test:U:119.92V I:3.3275A P:398.27W PF:0.9981 Freq:59.98Hz Lamp Flux:55146.1x1 lm		
NAME: LED High Bay Light	TYPE:Flood Light	WEIGHT:N/A
SPEC.:400W/110°	DIM.: 310*500mm	SERIAL No.:N/A
MFR.: Grin Industrial Co., Ltd.	SUR.:N/A	Shielding Angle:N/A



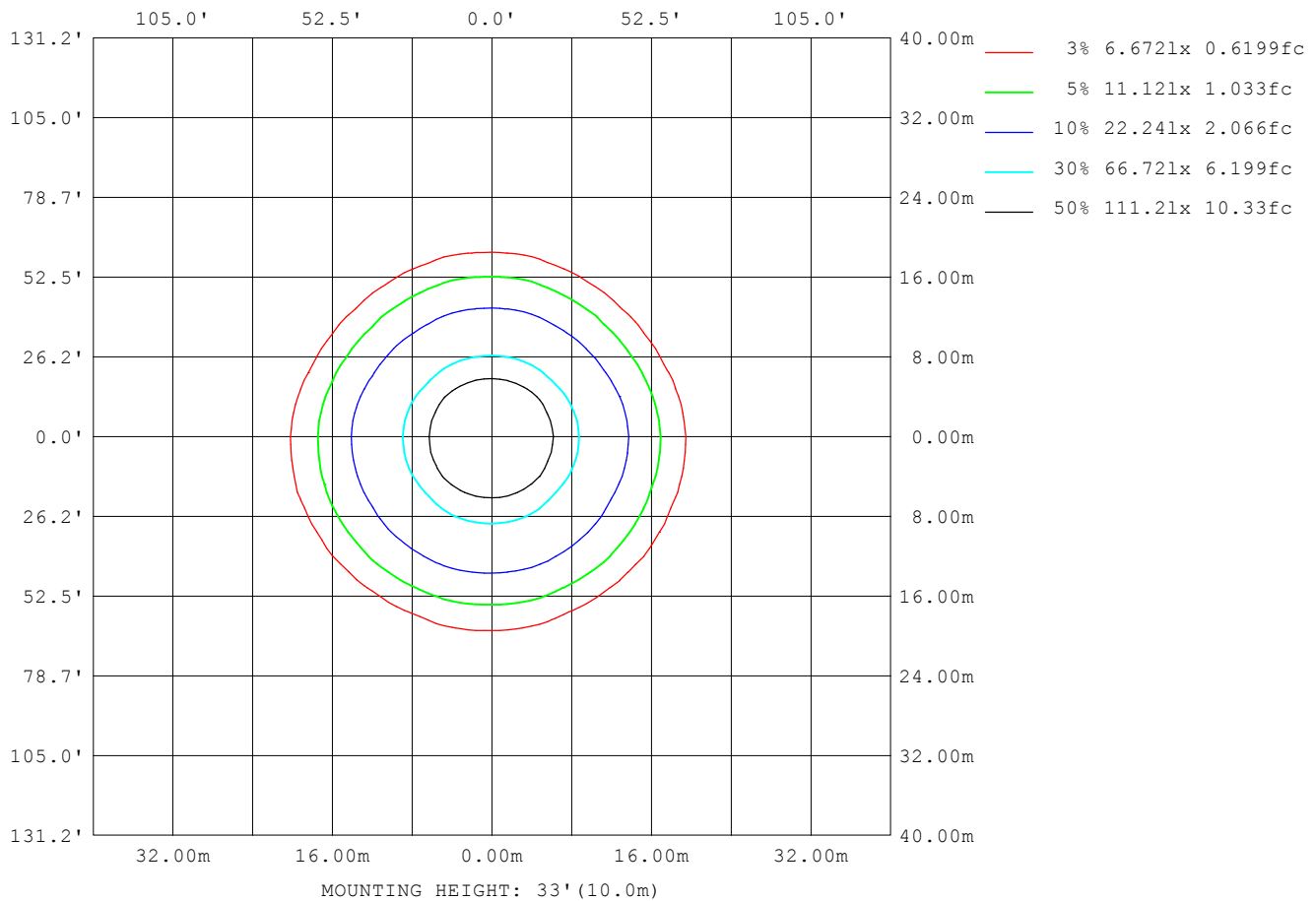
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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

V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.411
Humidity:65%
Test Distance:6.938m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

Test:U:119.92V I:3.3275A P:398.27W PF:0.9981 Freq:59.98Hz Lamp Flux:55146.1x1 lm		
NAME: LED High Bay Light	TYPE:Flood Light	WEIGHT:N/A
SPEC.:400W/110°	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:2024-11-11

V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.411
Humidity:65%
Test Distance:6.938m [K=1.0000]
Remarks:

LED Avg.L Report

Test:U:119.92V I:3.3275A P:398.27W PF:0.9981 Freq:59.98Hz Lamp Flux:55146.1x1 lm		
NAME: LED High Bay Light	TYPE:Flood Light	WEIGHT:N/A
SPEC.:400W/110°	DIM.: 310*500mm	SERIAL No.:N/A
MFR.: Grin Industrial Co., Ltd.	SUR.:N/A	Shielding Angle:N/A

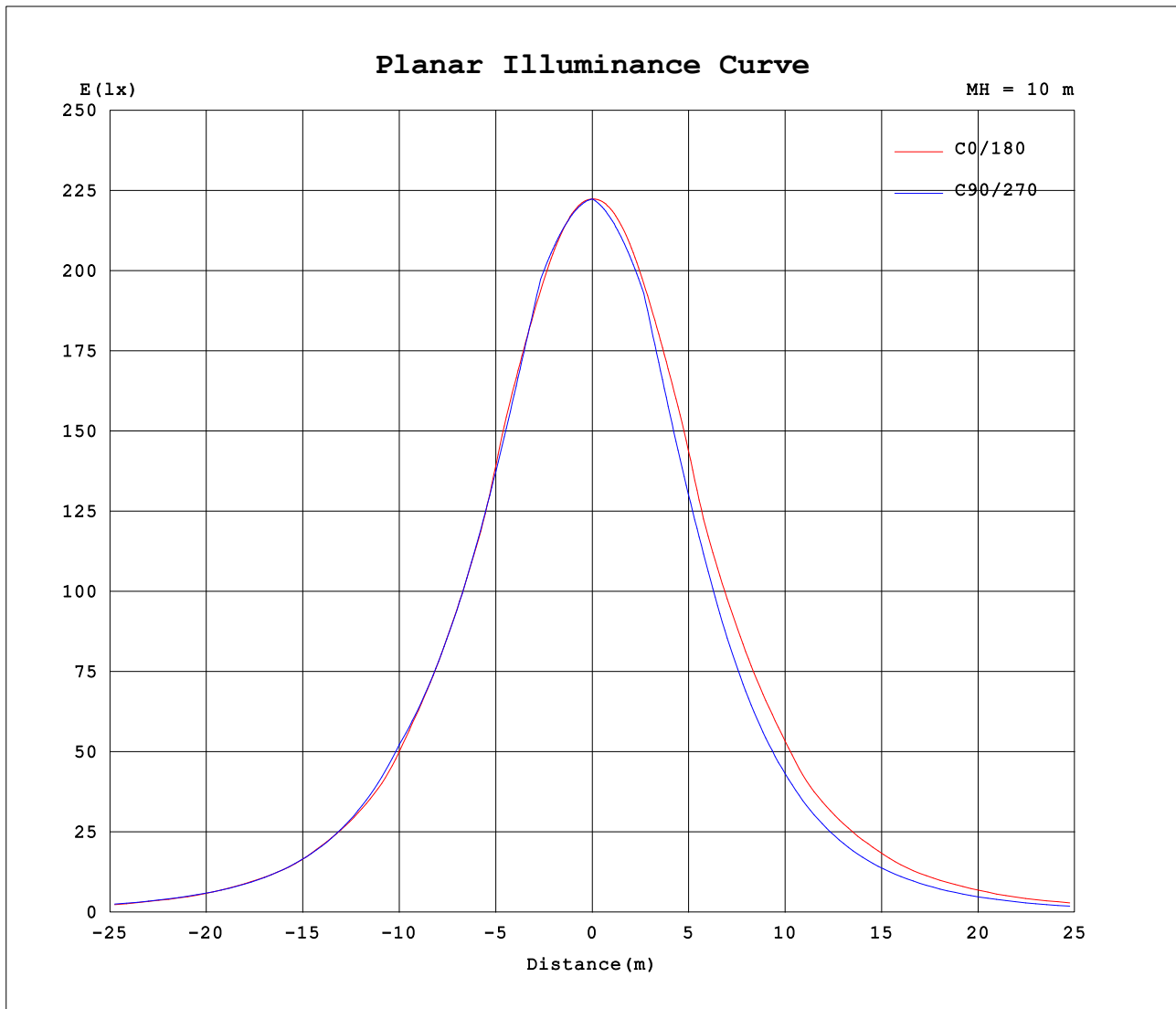
AvgL	cd/m2
L_0~180 (65) av	632286
L_0~180 (75) av	363460
L_0~180 (85) av	35101
L_90~270 (65) av	539524
L_90~270 (75) av	246216
L_90~270 (85) av	0
L_45 (65) av	539940
L_45 (75) av	314801
L_45 (85) av	0

Standard: GB/T 29293-2012

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

V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.411
Humidity:65%
Test Distance:6.938m [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:2024-11-11

V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.411
Humidity:65%
Test Distance:6.938m [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:6.938m [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:6.938m [K=1.0000]
Remarks:
```

```
V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
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