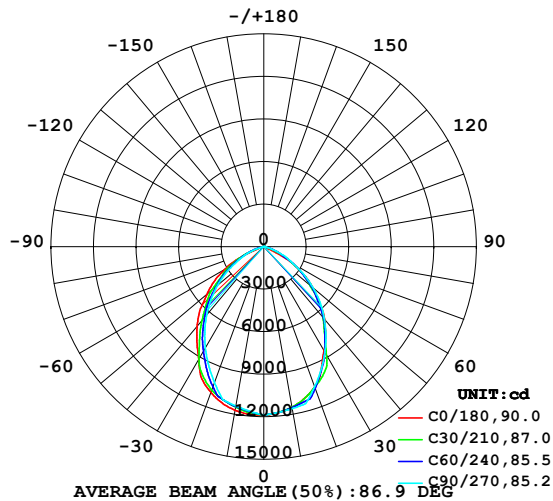


## LUMINAIRE PHOTOMETRIC TEST REPORT

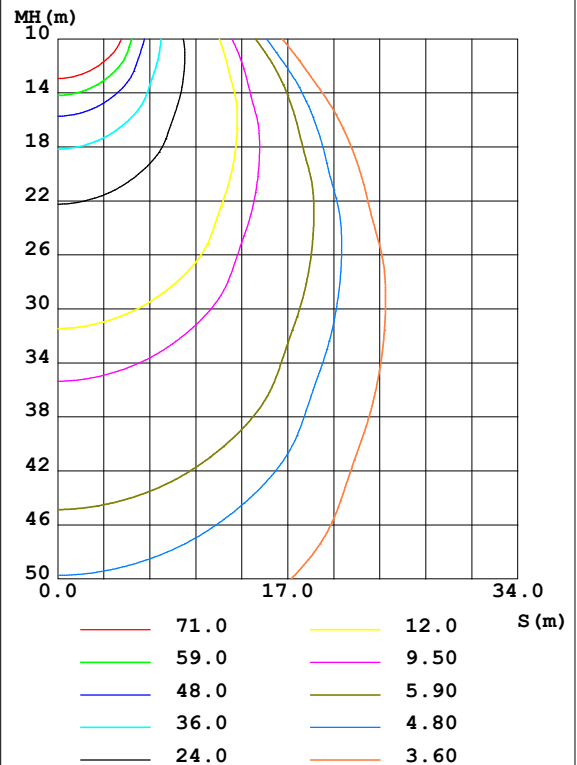
Test:U:220.11V I:0.6812A P:147.78W PF:0.9856 Freq:59.98Hz Lamp Flux:22806.6x1 lm		
NAME: LED High Bay Light	TYPE:Flood Light	WEIGHT:N/A
SPEC.:150W	DIM.: 210*280mm	SERIAL No.:N/A
MFR.: Grin Industrial Co., Ltd.	SUR.:N/A	Shielding Angle:N/A

DATA OF LAMP		PHOTOMETRIC DATA Eff: 154.33 lm/W			
MODEL	GSM-23-U	Imax(cd)	11881	S/MH(C0/180)	1.16
NOMINAL POWER(W)	150	LOR(%)	100.0	S/MH(C90/270)	1.07
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	22807	□ UP,DN(C0-180)	0.0,50.6
NOMINAL FLUX(lm)	22806.6	CIE CLASS	DIRECT	□ UP,DN(C180-360)	0.0,49.4
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	1151	1149	1160	1159	1171	1147	1140	1136	0- 10	1112	1112	4.88, 4.88
20	1053	1084	1051	1098	1094	1077	1020	1059	10- 20	3145	4258	18.7, 18.7
30	851.3	871.6	863.0	908.3	918.4	885.2	825.6	851.0	20- 30	4467	8724	38.3, 38.3
40	667.4	627.0	664.5	674.8	731.7	650.7	625.8	607.0	30- 40	4777	13501	59.2, 59.2
50	454.0	431.3	456.7	481.7	523.6	461.3	426.6	408.9	40- 50	4306	17808	78.1, 78.1
60	233.7	228.8	239.4	277.6	312.8	263.7	228.1	214.1	50- 60	3147	20954	91.9, 91.9
70	22.41	69.27	88.45	95.40	33.89	89.02	83.26	62.58	60- 70	1536	22490	98.6, 98.6
80	4.762	4.431	0	6.202	9.548	5.169	0	3.830	70- 80	305.5	22796	100, 100
90	0.3506	0	0	0	0.3015	0	0	0	80- 90	10.86	22807	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): 15762 lm

%lum = 69.1%

%lamp = 69.1%

Conical surface Flux(120deg): 20954 lm

%lum = 91.9%

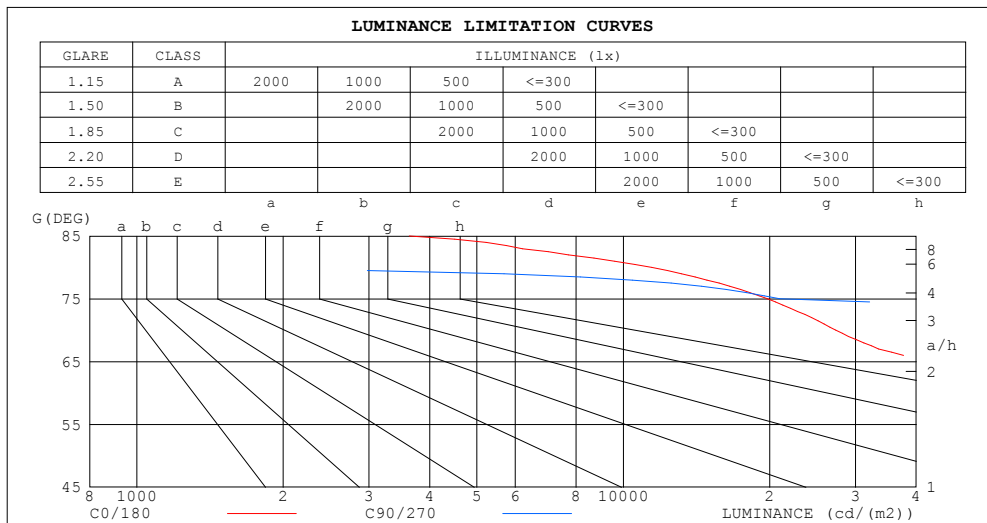
%lamp = 91.9%

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:220.11V I:0.6812A P:147.78W PF:0.9856 Freq:59.98Hz Lamp Flux:22806.6x1 lm		
NAME: LED High Bay Light	TYPE:Flood Light	WEIGHT:N/A
SPEC.:150W	DIM.: 210*280mm	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	3634	0
80	11428	0
75	19784	20966
70	27307	107751
65	49931	161957
60	194755	199493
55	248658	253238
50	294302	296029
45	323236	333532

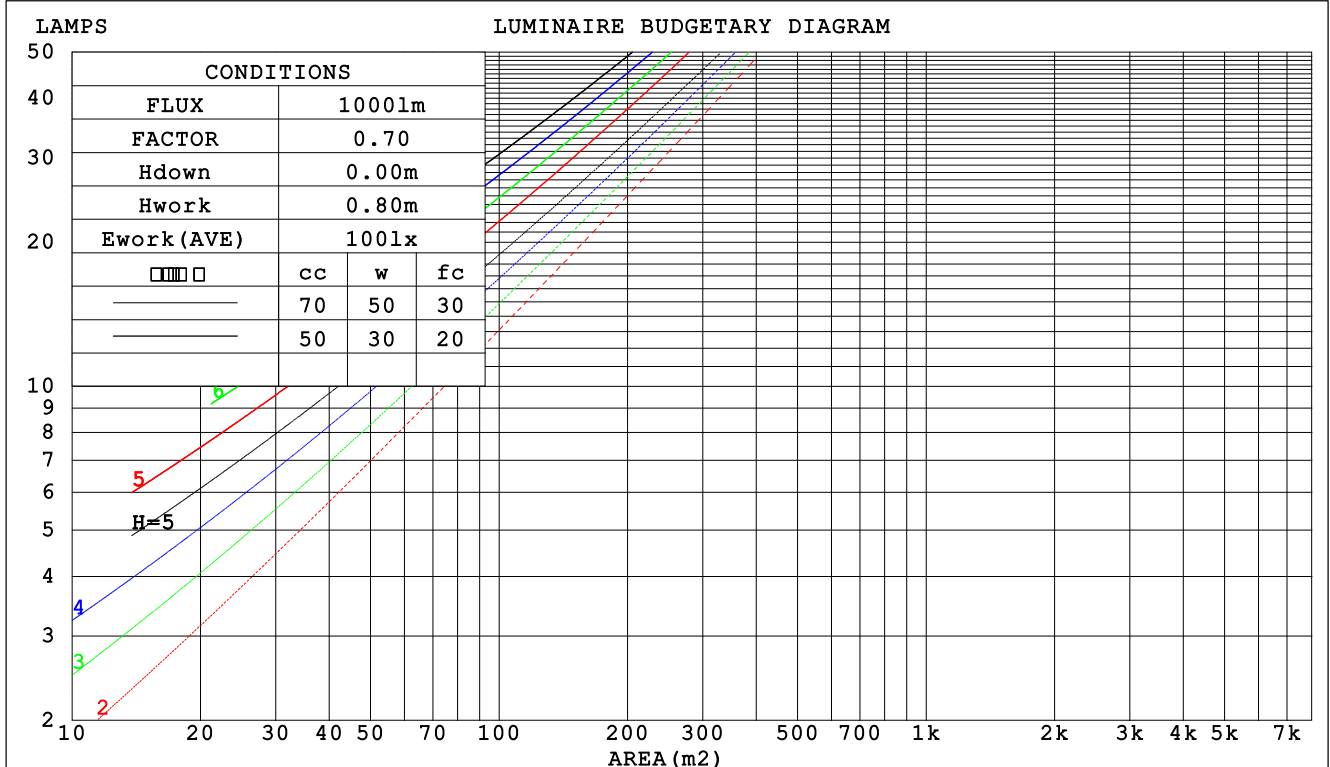
H(□) Range:-90 - 90DEG  
H(□) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Jessy  
Test Date:2024-11-07

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:220.11V I:0.6812A P:147.78W PF:0.9856 Freq:59.98Hz Lamp Flux:22806.6x1 lm		
NAME: LED High Bay Light	TYPE:Flood Light	WEIGHT:N/A
SPEC.:150W	DIM.: 210*280mm	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:220.11V I:0.6812A P:147.78W PF:0.9856 Freq:59.98Hz Lamp Flux:22806.6x1 lm		
NAME: LED High Bay Light	TYPE:Flood Light	WEIGHT:N/A
SPEC.:150W	DIM.: 210*280mm	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	.208 .120 .039	.197 .114 .037	
2.0	.236 .129 .040	.230 .127 .039	.219 .122 .038	.208 .117 .037	.199 .112 .035	
3.0	.225 .120 .036	.220 .118 .035	.210 .114 .035	.201 .110 .034	.193 .107 .033	
4.0	.213 .111 .033	.208 .109 .032	.200 .106 .032	.192 .103 .031	.184 .100 .030	
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	.165 .081 .023	.160 .080 .023	.155 .078 .023	.150 .077 .022	
9.0	.159 .077 .021	.157 .076 .021	.152 .075 .021	.147 .074 .021	.143 .072 .021	
10.0	.151 .072 .020	.148 .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	.050 .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:2024-11-07

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:220.11V I:0.6812A P:147.78W PF:0.9856 Freq:59.98Hz Lamp Flux:22806.6x1 lm										
NAME: LED High Bay Light					TYPE:Flood Light			WEIGHT:N/A		
SPEC.:150W					DIM.: 210*280mm			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	20.5	21.8	20.7	22.0	22.2	20.5	21.9	20.8	22.0	22.2
3H	20.4	21.6	20.7	21.8	22.1	21.0	22.2	21.3	22.4	22.7
4H	20.3	21.5	20.6	21.7	22.0	21.0	22.1	21.3	22.3	22.6
6H	20.2	21.3	20.5	21.6	21.8	20.9	21.9	21.2	22.2	22.5
8H	20.2	21.2	20.5	21.5	21.8	20.8	21.8	21.1	22.1	22.4
12H	20.1	21.1	20.5	21.4	21.7	20.8	21.7	21.1	22.0	22.3
4H 2H	20.6	21.8	20.9	22.0	22.3	20.7	21.9	21.0	22.1	22.3
3H	20.7	21.7	21.0	21.9	22.2	21.3	22.3	21.6	22.5	22.8
4H	20.6	21.5	21.0	21.8	22.1	21.2	22.1	21.6	22.4	22.8
6H	20.5	21.3	20.9	21.6	22.0	21.2	21.9	21.5	22.3	22.6
8H	20.5	21.2	20.9	21.6	21.9	21.1	21.8	21.5	22.2	22.6
12H	20.4	21.1	20.8	21.5	21.9	21.1	21.7	21.5	22.1	22.5
8H 4H	20.5	21.3	20.9	21.6	22.0	21.1	21.9	21.6	22.2	22.6
6H	20.5	21.0	20.9	21.4	21.9	21.1	21.7	21.5	22.1	22.5
8H	20.4	20.9	20.9	21.4	21.8	21.0	21.5	21.5	22.0	22.4
12H	20.4	20.8	20.8	21.3	21.7	21.0	21.4	21.5	21.9	22.3
12H 4H	20.5	21.1	20.9	21.5	21.9	21.1	21.8	21.5	22.1	22.5
6H	20.4	20.9	20.9	21.4	21.8	21.0	21.5	21.5	22.0	22.4
8H	20.4	20.8	20.8	21.3	21.7	21.0	21.4	21.5	21.9	22.3
Variations with the observer position at spacings:										
S = 1.0H	+ 0.8 / - 1.1					+ 0.5 / - 0.7				
1.5H	+ 0.5 / - 0.8					+ 0.4 / - 0.6				
2.0H	+ 1.4 / - 1.6					+ 1.4 / - 2.1				

CIE Pub.117, 22807 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 10.9)  
Area: 0.024 m2

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

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:220.11V I:0.6812A P:147.78W PF:0.9856 Freq:59.98Hz Lamp Flux:22806.6x1 lm		
NAME: LED High Bay Light	TYPE:Flood Light	WEIGHT:N/A
SPEC.:150W	DIM.: 210*280mm	SERIAL No.:N/A
MFR.: Grin Industrial Co., Ltd.	SUR.:N/A	Shielding Angle:N/A

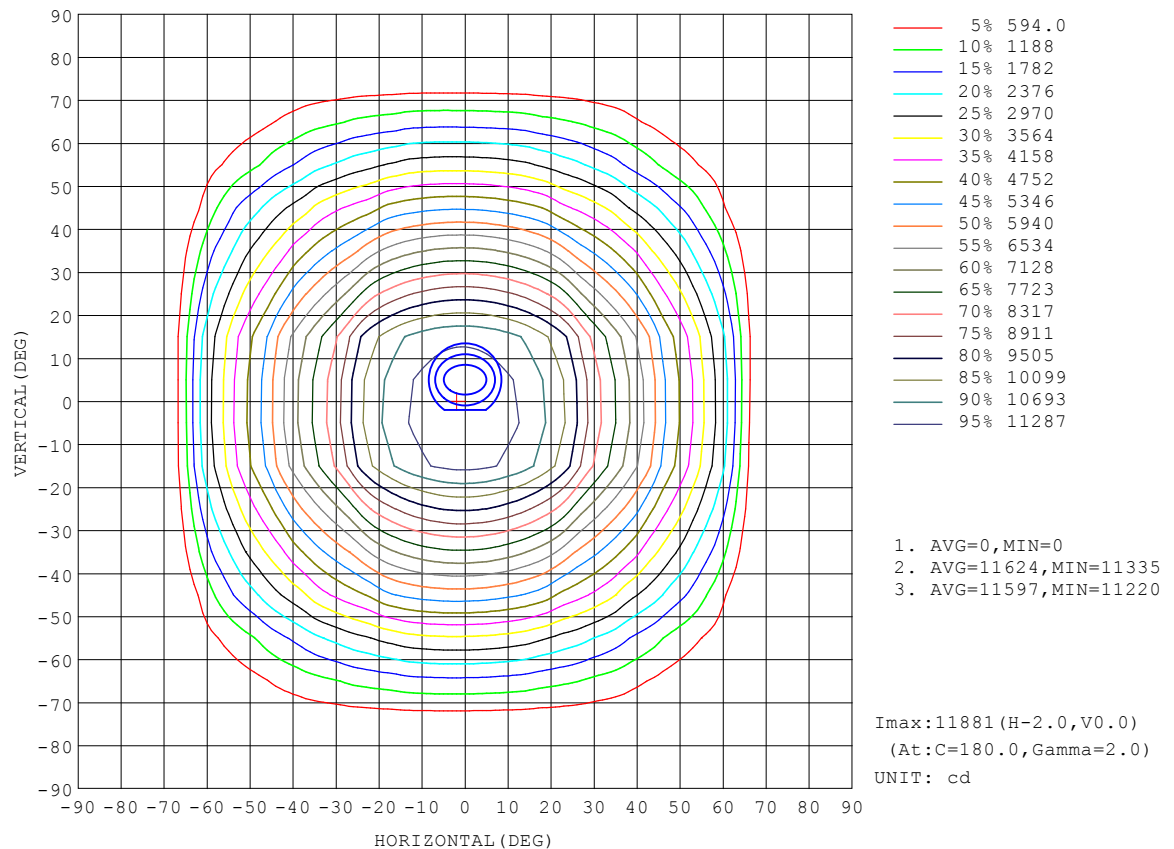
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	66	55	49	65	55	49	64	55	49	43
0.80	76	66	60	75	66	60	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	97	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	92
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:220.11V I:0.6812A P:147.78W PF:0.9856 Freq:59.98Hz Lamp Flux:22806.6x1 lm		
NAME: LED High Bay Light	TYPE:Flood Light	WEIGHT:N/A
SPEC.:150W	DIM.: 210*280mm	SERIAL No.:N/A
MFR.: Grin Industrial Co., Ltd.	SUR.:N/A	Shielding Angle:N/A



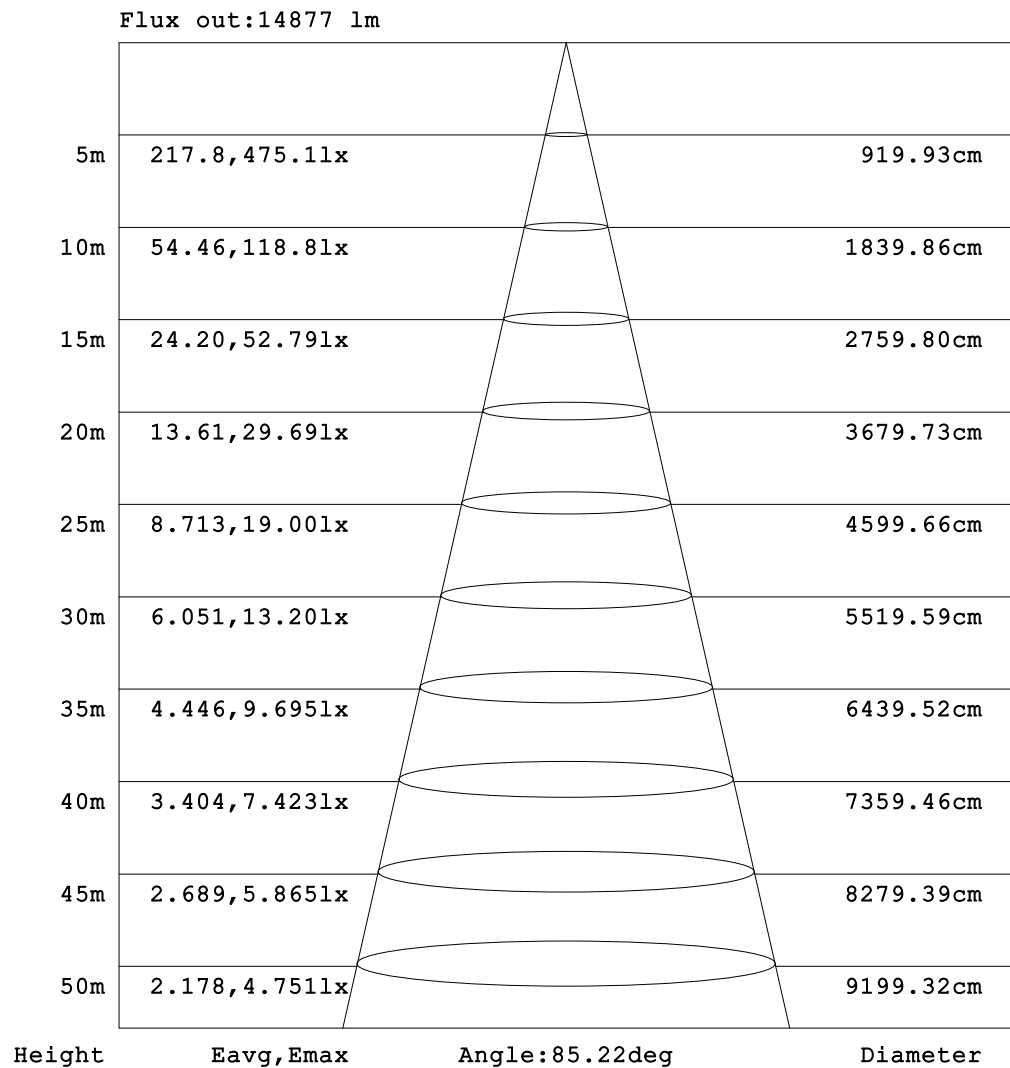
H(□) Range:-90 - 90DEG  
H(□) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Jessy  
Test Date:2024-11-07

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:220.11V I:0.6812A P:147.78W PF:0.9856 Freq:59.98Hz Lamp Flux:22806.6x1 lm		
NAME: LED High Bay Light	TYPE:Flood Light	WEIGHT:N/A
SPEC.:150W	DIM.: 210*280mm	SERIAL No.:N/A
MFR.: Grin Industrial Co., Ltd.	SUR.:N/A	Shielding Angle:N/A



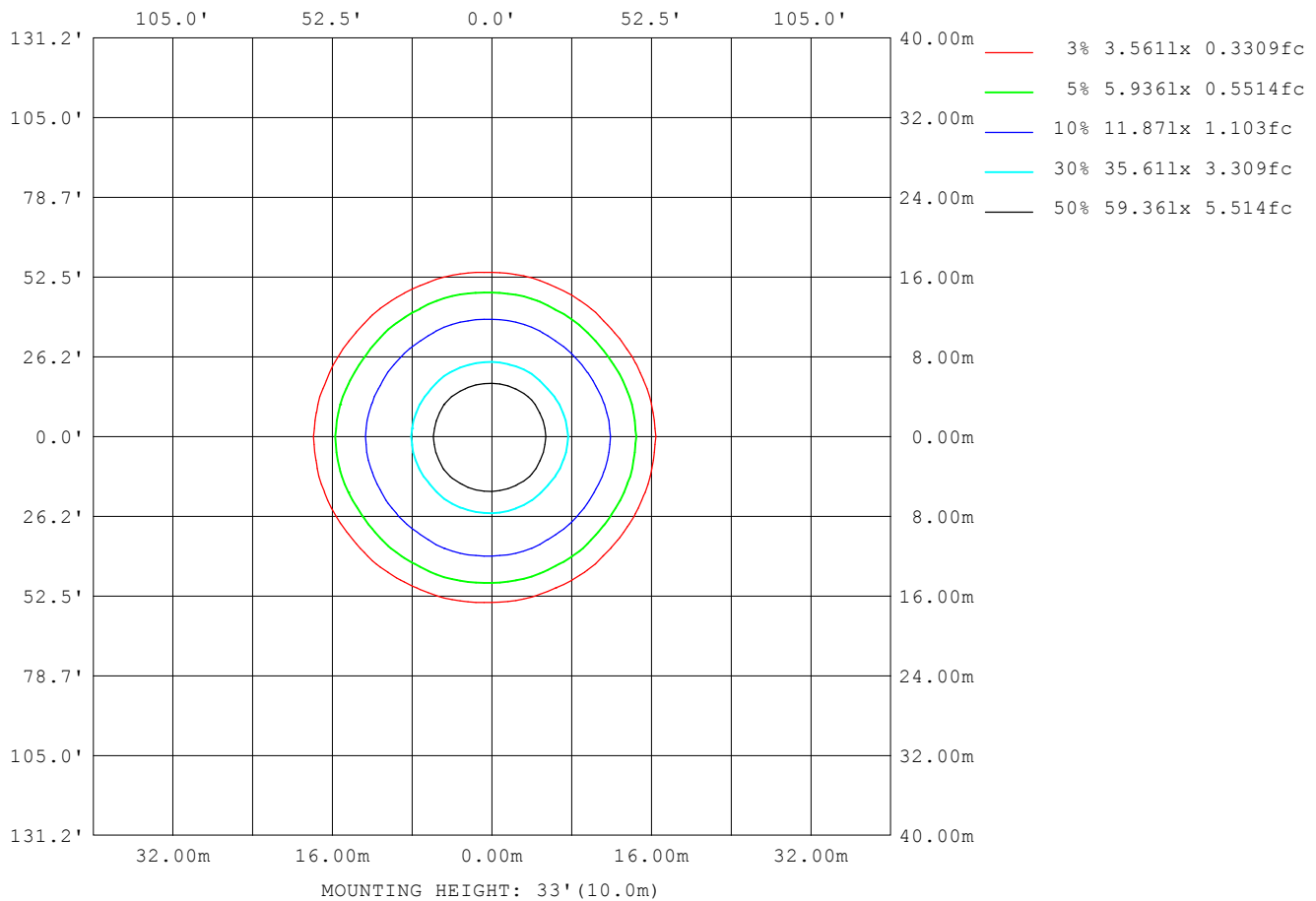
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:220.11V I:0.6812A P:147.78W PF:0.9856 Freq:59.98Hz Lamp Flux:22806.6x1 lm		
NAME: LED High Bay Light	TYPE:Flood Light	WEIGHT:N/A
SPEC.:150W	DIM.: 210*280mm	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:220.11V I:0.6812A P:147.78W PF:0.9856 Freq:59.98Hz Lamp Flux:22806.6x1 lm		
NAME: LED High Bay Light	TYPE:Flood Light	WEIGHT:N/A
SPEC.:150W	DIM.: 210*280mm	SERIAL No.:N/A
MFR.: Grin Industrial Co., Ltd.	SUR.:N/A	Shielding Angle:N/A

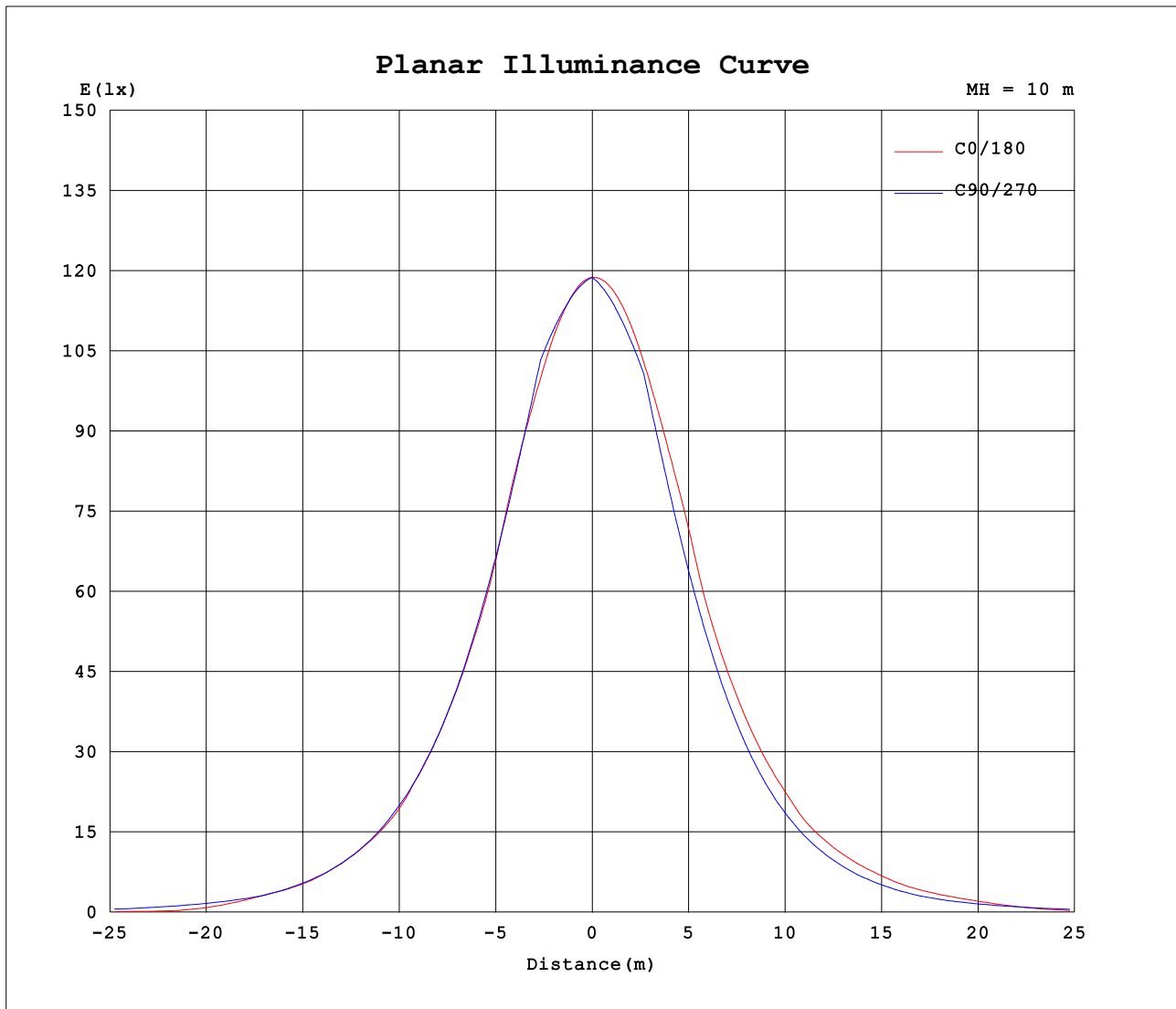
AvgL	cd/m2
L_0~180 (65) av	113054
L_0~180 (75) av	25241
L_0~180 (85) av	8748
L_90~270 (65) av	157888
L_90~270 (75) av	19248
L_90~270 (85) av	0
L_45 (65) av	148790
L_45 (75) av	59879
L_45 (85) av	0

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:
```

```
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:
```

```
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:
```