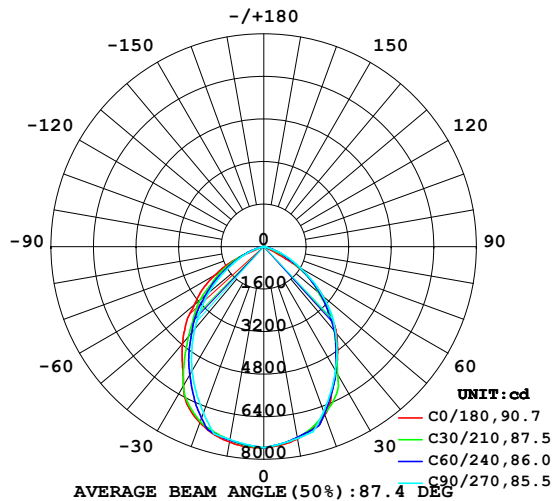


LUMINAIRE PHOTOMETRIC TEST REPORT

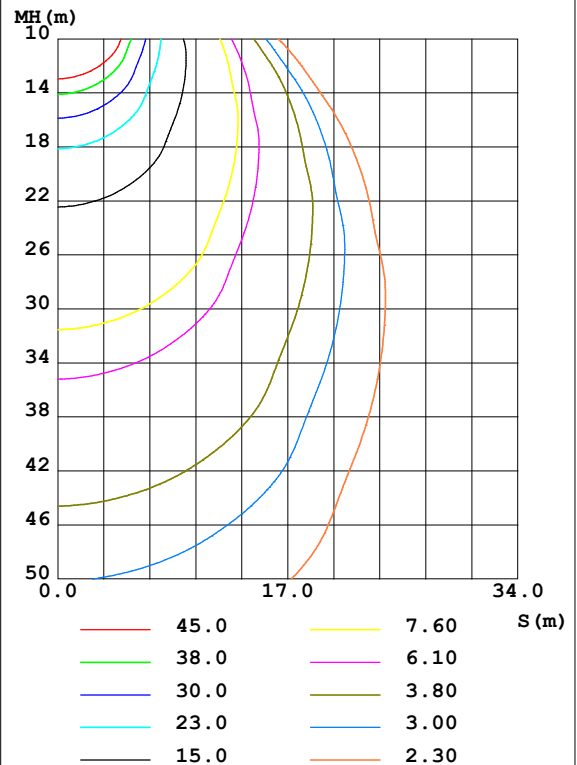
Test:U:220.16V I:0.4609A P:99.413W PF:0.9797 Freq:59.98Hz Lamp Flux:14572.6x1 lm		
NAME: LED High Bay Light	TYPE:Flood Light	WEIGHT:N/A
SPEC.:100W	DIM.: 120*210mm	SERIAL No.:N/A
MFR.: Grin Industrial Co., Ltd.	SUR.:N/A	Shielding Angle:N/A

DATA OF LAMP		PHOTOMETRIC DATA Eff: 146.59 lm/W			
MODEL	GSM-15-U	I _{max} (cd)	7567	S/MH(C0/180)	1.19
NOMINAL POWER(W)	100	LOR(%)	100.0	S/MH(C90/270)	1.09
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	14573	□ UP,DN(C0-180)	0.0,50.4
NOMINAL FLUX(lm)	14572.6	CIE CLASS	DIRECT	□ UP,DN(C180-360)	0.0,49.6
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	7343	7276	7318	7342	7464	7383	7365	7302	0- 10	709.2	709.2	4.87,4.87
20	6730	6843	6595	6946	7039	7038	6646	6868	10- 20	2012	2722	18.7,18.7
30	5428	5504	5391	5771	6046	5782	5404	5454	20- 30	2864	5585	38.3,38.3
40	4263	3958	4204	4340	4759	4284	4038	3886	30- 40	3064	8649	59.4,59.4
50	2911	2735	2917	3131	3409	3007	2707	2567	40- 50	2765	11414	78.3,78.3
60	1249	1407	1530	1854	2068	1744	1410	1278	50- 60	2014	13428	92.1,92.1
70	126.7	343.4	563.7	627.2	228.5	556.9	511.1	282.2	60- 70	951.6	14380	98.7,98.7
80	22.19	25.77	0	45.13	69.54	36.07	0	18.44	70- 80	185.9	14565	100,100
90	2.430	0	0	0	1.425	0	0	0	80- 90	7.150	14573	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:cd									UNIT:lm		

Conical surface Flux(90deg): 10098 lm

%lum = 69.3%

%lamp = 69.3%

Conical surface Flux(120deg): 13428 lm

%lum = 92.1%

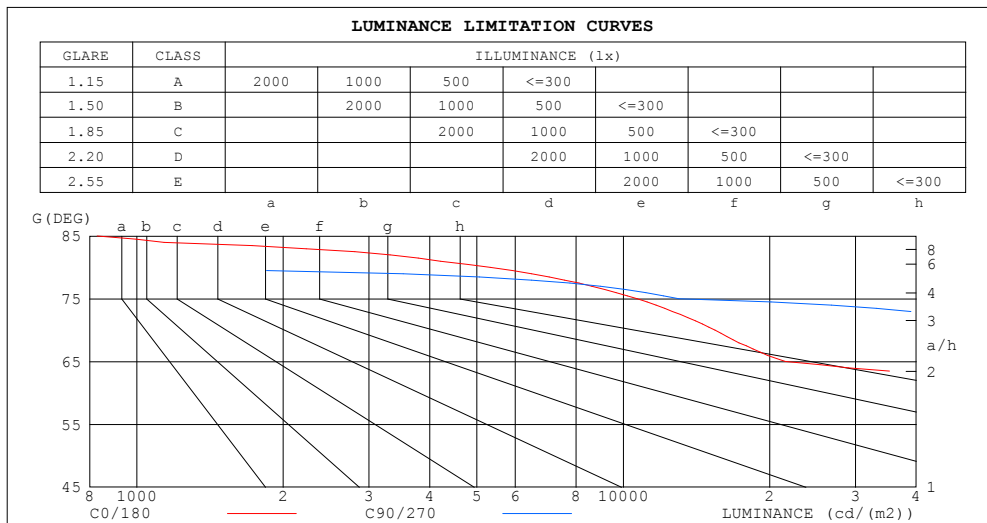
%lamp = 92.1%

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:220.16V I:0.4609A P:99.413W PF:0.9797 Freq:59.98Hz Lamp Flux:14572.6x1 lm		
NAME: LED High Bay Light	TYPE:Flood Light	WEIGHT:N/A
SPEC.:100W	DIM.: 120*210mm	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	828	0
80	5325	0
75	10687	13002
70	15433	68674
65	21532	103466
60	104061	127536
55	154585	161872
50	188696	189071
45	207399	213155

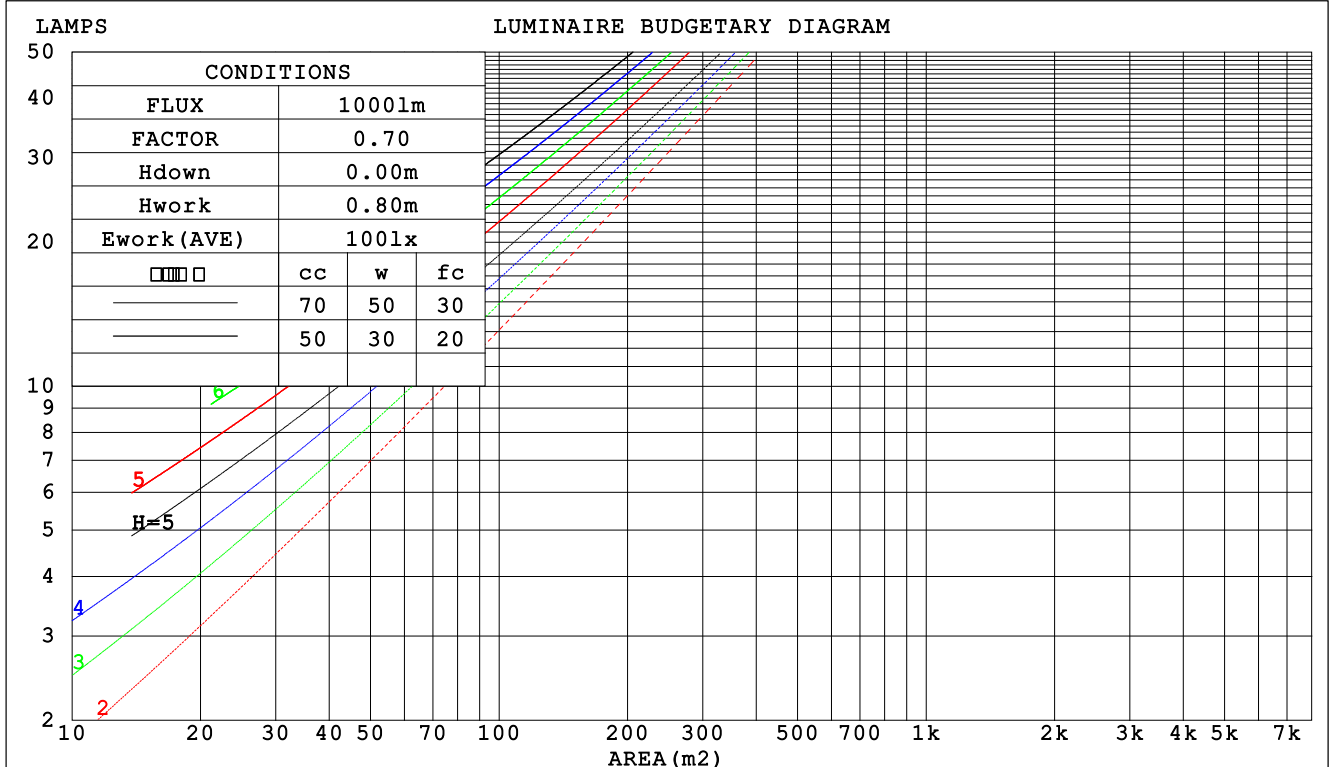
H(□) Range:-90 - 90DEG
H(□) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jessy
Test Date:2024-11-07

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:220.16V I:0.4609A P:99.413W PF:0.9797 Freq:59.98Hz Lamp Flux:14572.6x1 lm		
NAME: LED High Bay Light	TYPE:Flood Light	WEIGHT:N/A
SPEC.:100W	DIM.: 120*210mm	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(\square) Range:-90 - 90DEG
H(\square) 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:220.16V I:0.4609A P:99.413W PF:0.9797 Freq:59.98Hz Lamp Flux:14572.6x1 lm					
NAME: LED High Bay Light			TYPE:Flood Light		WEIGHT:N/A
SPEC.:100W			DIM.: 120*210mm		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	.239	.136	.043	.232	.133	.042	.220	.126	.040	.208	.120	.038	.197	.114	.037		
2.0	.235	.129	.040	.229	.126	.039	.218	.121	.038	.208	.117	.036	.198	.112	.035		
3.0	.225	.120	.036	.219	.118	.035	.210	.114	.035	.201	.110	.034	.192	.106	.033		
4.0	.213	.110	.032	.208	.109	.032	.199	.106	.032	.191	.103	.031	.184	.100	.030		
5.0	.200	.102	.030	.196	.101	.029	.189	.098	.029	.182	.096	.029	.175	.093	.028		
6.0	.189	.095	.027	.185	.094	.027	.178	.091	.027	.172	.089	.026	.166	.087	.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	.156	.076	.021	.151	.075	.021	.147	.074	.021	.142	.072	.021		
10.0	.151	.072	.020	.148	.072	.020	.144	.070	.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	.072	.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:220.16V I:0.4609A P:99.413W PF:0.9797 Freq:59.98Hz Lamp Flux:14572.6x1 lm										
NAME: LED High Bay Light					TYPE:Flood Light			WEIGHT:N/A		
SPEC.:100W					DIM.: 120*210mm			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	20.3	21.6	20.5	21.8	22.0	20.5	21.8	20.7	22.0	22.2
3H	20.2	21.4	20.5	21.6	21.8	20.9	22.2	21.2	22.4	22.6
4H	20.1	21.2	20.4	21.5	21.7	20.9	22.1	21.2	22.3	22.5
6H	20.0	21.1	20.3	21.3	21.6	20.8	21.9	21.1	22.1	22.4
8H	20.0	21.0	20.3	21.3	21.5	20.8	21.8	21.1	22.1	22.3
12H	19.9	20.9	20.2	21.2	21.5	20.7	21.7	21.1	22.0	22.3
4H 2H	20.4	21.6	20.7	21.8	22.1	20.6	21.8	20.9	22.0	22.2
3H	20.4	21.4	20.7	21.7	22.0	21.2	22.2	21.5	22.4	22.7
4H	20.3	21.2	20.7	21.5	21.8	21.2	22.0	21.5	22.4	22.7
6H	20.2	21.0	20.6	21.4	21.7	21.1	21.8	21.5	22.2	22.5
8H	20.2	20.9	20.6	21.3	21.7	21.0	21.7	21.4	22.1	22.5
12H	20.1	20.8	20.6	21.2	21.6	21.0	21.6	21.4	22.0	22.4
8H 4H	20.2	21.0	20.6	21.3	21.7	21.0	21.8	21.4	22.1	22.5
6H	20.2	20.8	20.6	21.2	21.6	21.0	21.6	21.4	22.0	22.4
8H	20.1	20.6	20.6	21.1	21.5	20.9	21.4	21.4	21.9	22.3
12H	20.1	20.5	20.6	21.0	21.4	20.9	21.3	21.3	21.8	22.2
12H 4H	20.2	20.9	20.6	21.2	21.6	21.0	21.7	21.4	22.0	22.4
6H	20.1	20.6	20.6	21.1	21.5	20.9	21.4	21.4	21.9	22.3
8H	20.1	20.5	20.6	21.0	21.4	20.9	21.3	21.3	21.8	22.2
Variations with the observer position at spacings:										
S = 1.0H	+ 0.9 / - 1.1					+ 0.5 / - 0.7				
1.5H	+ 0.6 / - 1.0					+ 0.4 / - 0.6				
2.0H	+ 1.6 / - 2.5					+ 1.4 / - 2.2				

CIE Pub.117, 14573 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 9.3)
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:220.16V I:0.4609A P:99.413W PF:0.9797 Freq:59.98Hz Lamp Flux:14572.6x1 lm		
NAME: LED High Bay Light	TYPE:Flood Light	WEIGHT:N/A
SPEC.:100W	DIM.: 120*210mm	SERIAL No.:N/A
MFR.: Grin Industrial Co., Ltd.	SUR.:N/A	Shielding Angle:N/A

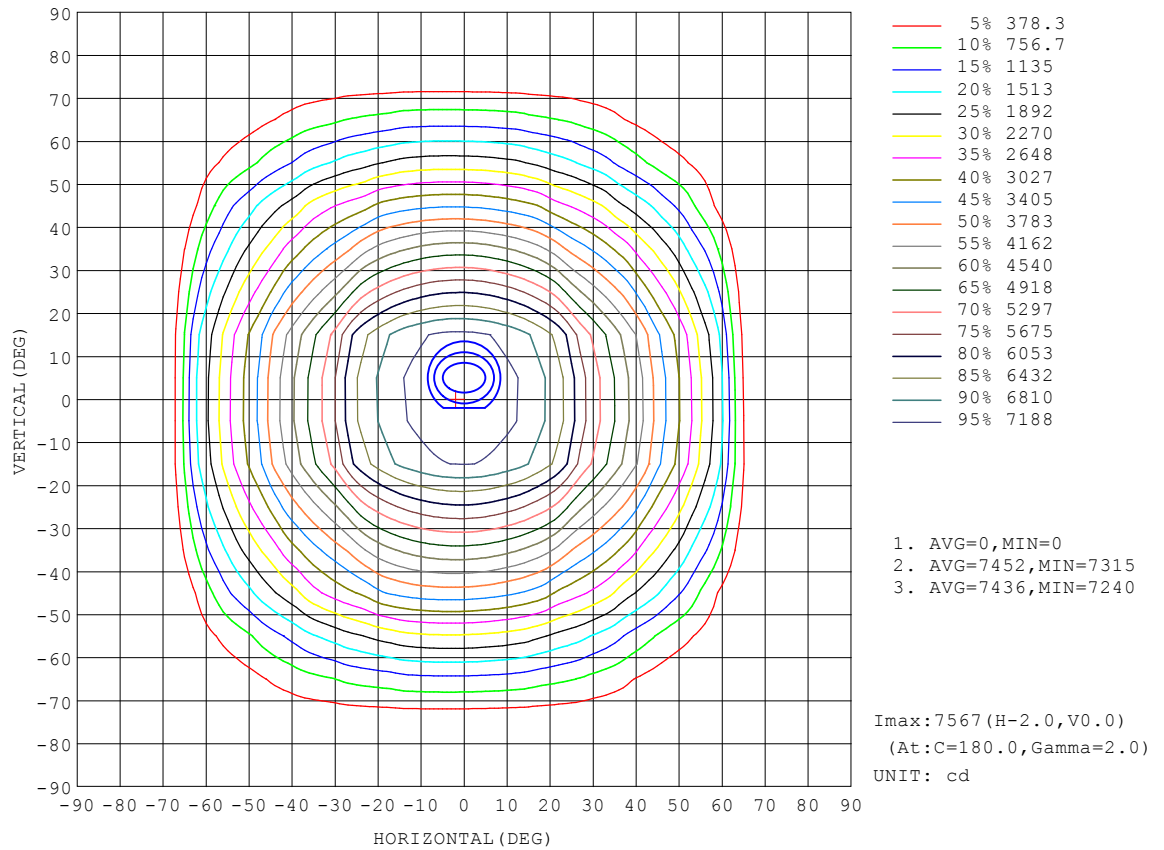
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	66	55	49	65	55	49	64	55	49	43
0.80	76	66	60	75	66	60	73	65	59	53
1.00	84	75	69	83	74	69	81	75	68	62
1.25	91	82	77	90	82	76	87	80	75	69
1.50	95	87	82	94	87	81	91	85	80	74
2.00	101	94	89	99	93	89	96	91	87	80
2.50	104	98	93	102	97	92	99	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:220.16V I:0.4609A P:99.413W PF:0.9797 Freq:59.98Hz Lamp Flux:14572.6x1 lm		
NAME: LED High Bay Light	TYPE:Flood Light	WEIGHT:N/A
SPEC.:100W	DIM.: 120*210mm	SERIAL No.:N/A
MFR.: Grin Industrial Co., Ltd.	SUR.:N/A	Shielding Angle:N/A

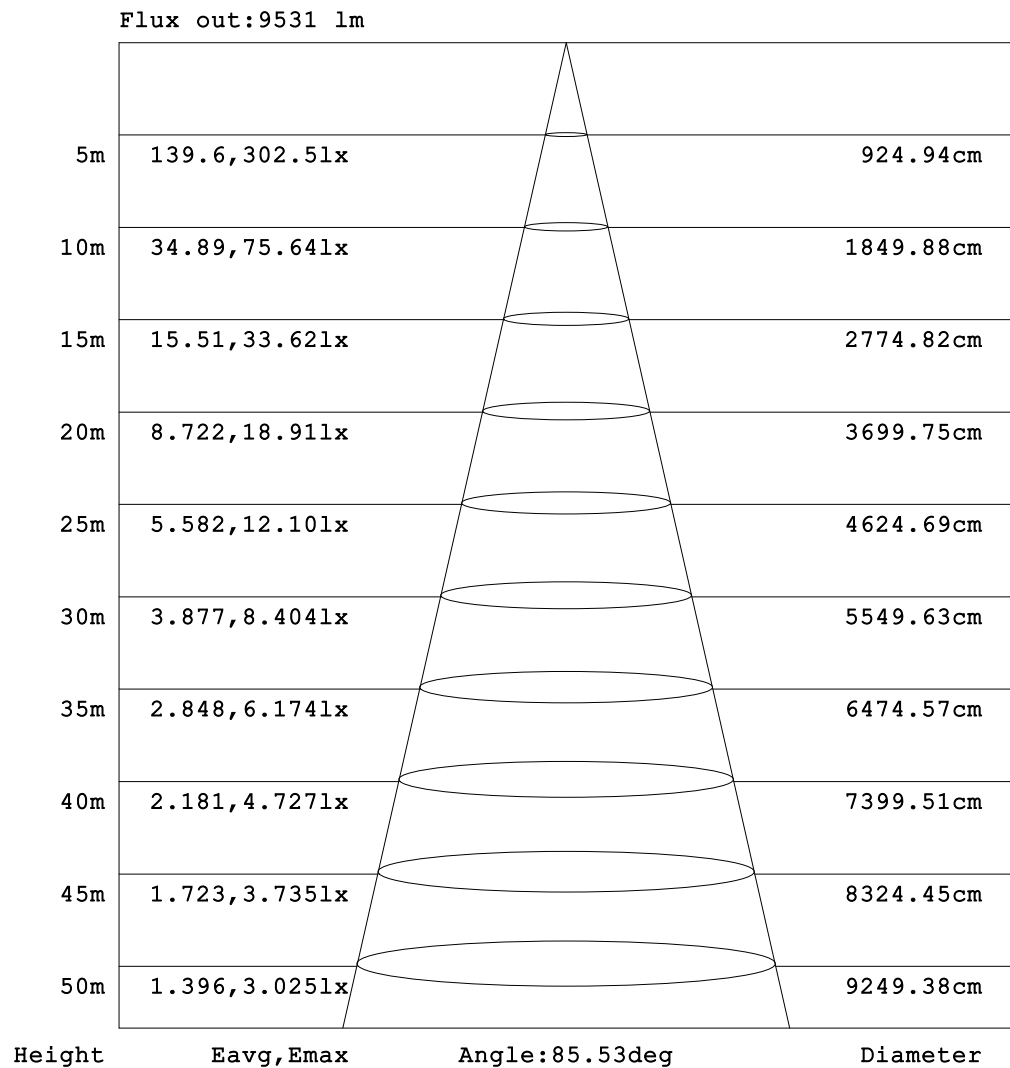


H(□) Range:-90 - 90DEG
H(□) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jessy
Test Date:2024-11-07

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:220.16V I:0.4609A P:99.413W PF:0.9797 Freq:59.98Hz Lamp Flux:14572.6x1 lm		
NAME: LED High Bay Light	TYPE:Flood Light	WEIGHT:N/A
SPEC.:100W	DIM.: 120*210mm	SERIAL No.:N/A
MFR.: Grin Industrial Co., Ltd.	SUR.:N/A	Shielding Angle:N/A



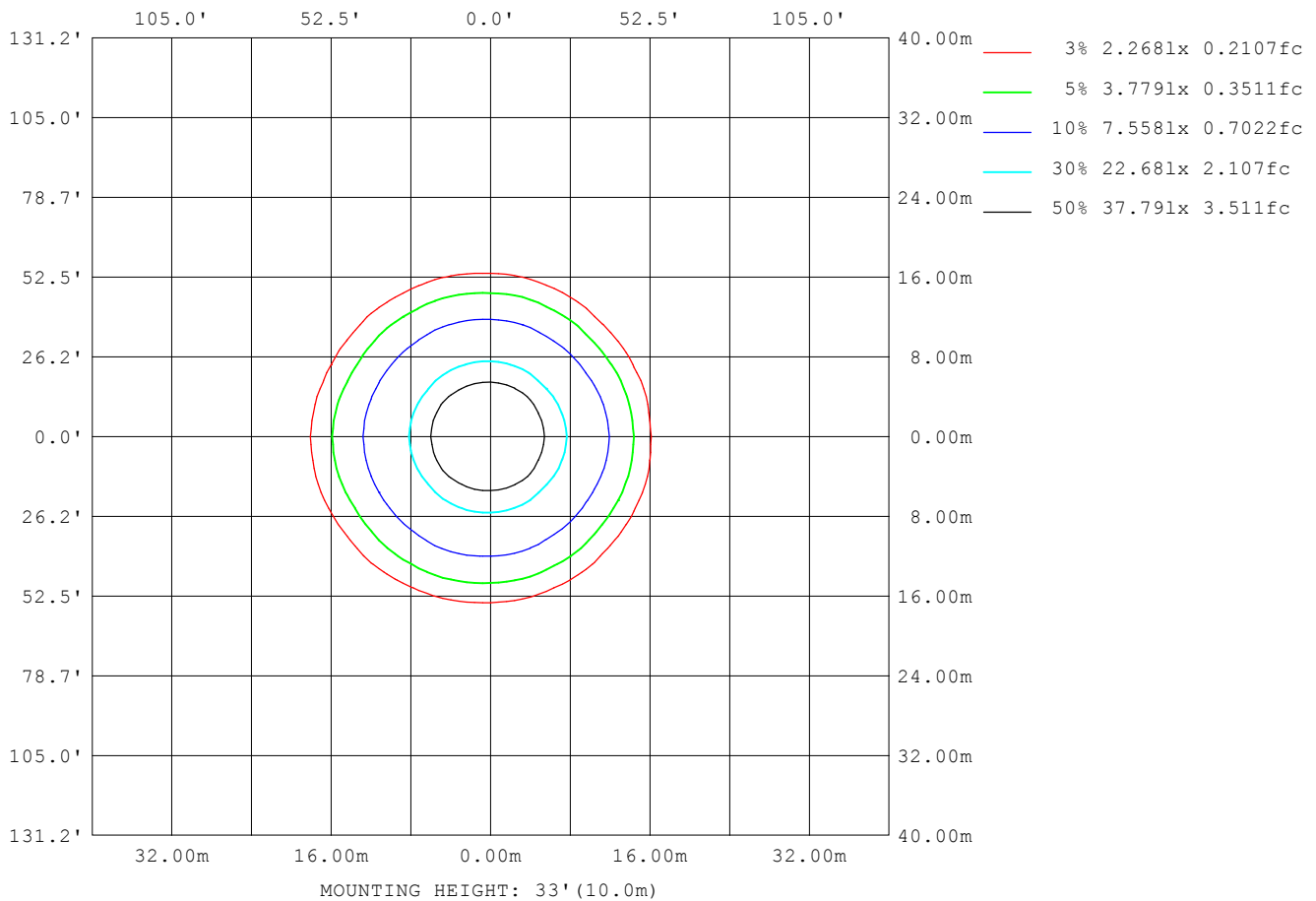
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:220.16V I:0.4609A P:99.413W PF:0.9797 Freq:59.98Hz Lamp Flux:14572.6x1 lm		
NAME: LED High Bay Light	TYPE:Flood Light	WEIGHT:N/A
SPEC.:100W	DIM.: 120*210mm	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:220.16V I:0.4609A P:99.413W PF:0.9797 Freq:59.98Hz Lamp Flux:14572.6x1 lm		
NAME: LED High Bay Light	TYPE:Flood Light	WEIGHT:N/A
SPEC.:100W	DIM.: 120*210mm	SERIAL No.:N/A
MFR.: Grin Industrial Co., Ltd.	SUR.:N/A	Shielding Angle:N/A

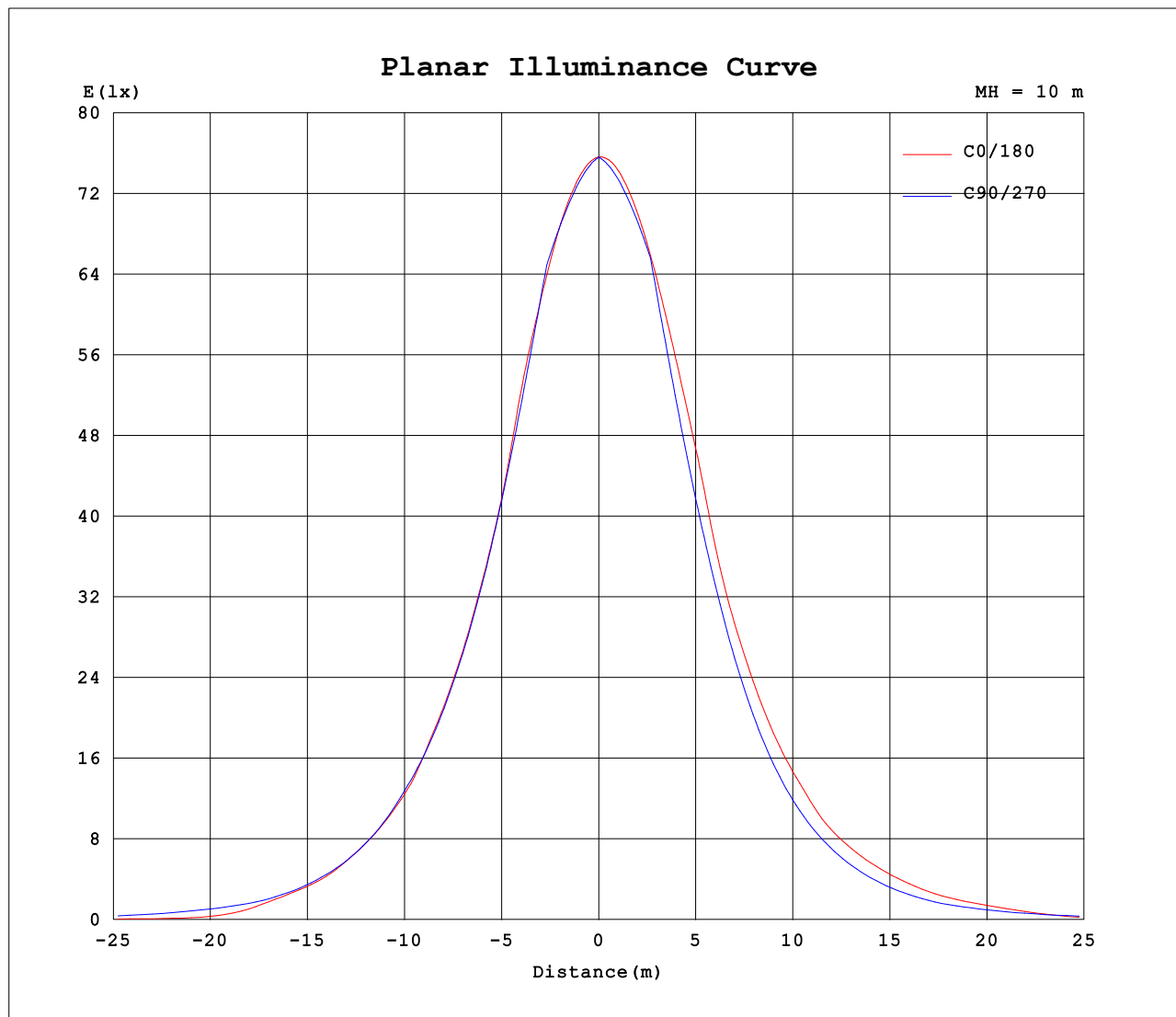
AvgL	cd/m2
L_0~180 (65) av	75096
L_0~180 (75) av	15747
L_0~180 (85) av	2599
L_90~270 (65) av	99180
L_90~270 (75) av	11508
L_90~270 (85) av	0
L_45 (65) av	90857
L_45 (75) av	34269
L_45 (85) av	0

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:
```