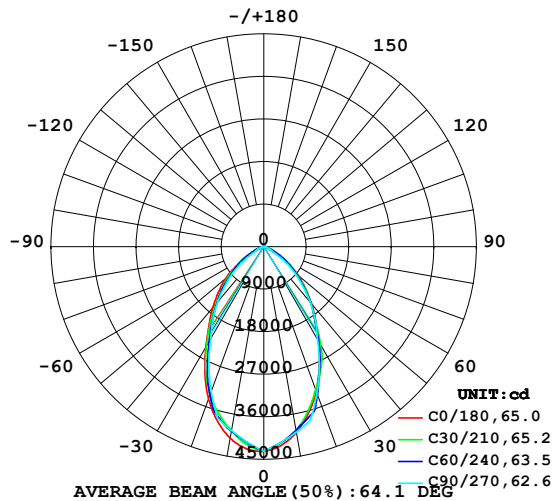


LUMINAIRE PHOTOMETRIC TEST REPORT

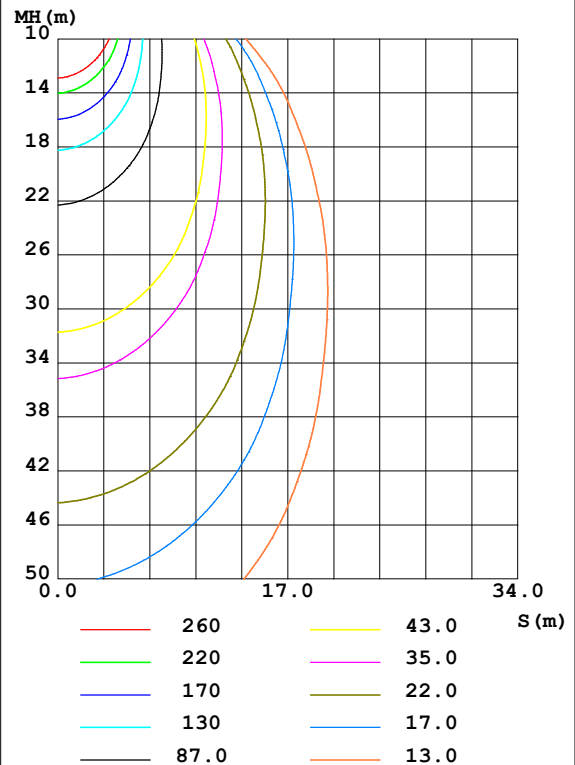
Test:U:119.93V I:3.3257A P:398.10W PF:0.9981 Freq:59.98Hz Lamp Flux:57241.5x1 lm		
NAME: LED High Bay Light	TYPE:Flood Light	WEIGHT:N/A
SPEC.:400W/60°	DIM.: 310*500mm	SERIAL No.:N/A
MFR.: Grin Industrial Co., Ltd.	SUR.:N/A	Shielding Angle:N/A

DATA OF LAMP		PHOTOMETRIC DATA Eff: 143.79 lm/W			
MODEL	GSM-60-U	I _{max} (cd)	43332	S/MH(C0/180)	0.95
NOMINAL POWER(W)	400	LOR(%)	100.0	S/MH(C90/270)	0.89
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	57241	□ UP,DN(C0-180)	0.0,50.1
NOMINAL FLUX(lm)	57241.5	CIE CLASS	DIRECT	□ UP,DN(C180-360)	0.0,49.9
LAMPS INSIDE	1	□ up(%)	0.0	CIBSE SHR NOM	1.00
TEST VOLTAGE(V)	120	□ down(%)	100.0	CIBSE SHR MAX	1.00

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:2024-11-13

V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.411
Humidity:65%
Test Distance:6.908m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

°	C0	C45	C90	C135	C180	C225	C270	C315	°	□ zone	□ total	%lum, lamp
10	3988	3934	3982	3966	4113	3956	3950	3906	0- 10	3920	3920	6.85, 6.85
20	3250	3372	3297	3362	3423	3365	3255	3318	10- 20	10302	14222	24.8, 24.8
30	2313	2354	2275	2390	2455	2400	2244	2306	20- 30	12908	27129	47.4, 47.4
40	1570	1484	1528	1526	1678	1534	1516	1449	30- 40	11965	39095	68.3, 68.3
50	960.6	910.9	841.7	955.1	1053	953.0	843.1	901.8	40- 50	9429	48524	84.8, 84.8
60	250.6	445.4	215.5	466.6	321.3	468.7	224.5	439.8	50- 60	5880	54404	95, 95
70	68.32	106.5	92.39	102.0	77.36	108.1	95.51	102.5	60- 70	2251	56654	99, 99
80	15.37	15.51	0	14.00	19.10	14.38	0	14.60	70- 80	557.6	57212	99.9, 99.9
90	0.5765	0	0	0	0.6638	0	0	0	80- 90	29.50	57241	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): 44201 lm

%lum = 77.2%

%lamp = 77.2%

Conical surface Flux(120deg): 54404 lm

%lum = 95.0%

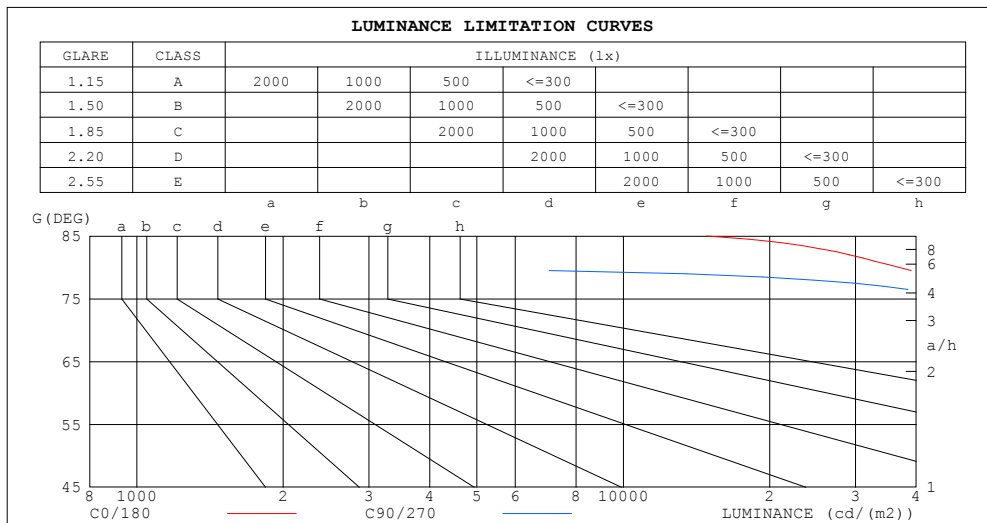
%lamp = 95.0%

H(□) Range:-90 - 90DEG
H(□) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jessy
Test Date:2024-11-13

V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.411
Humidity:65%
Test Distance:6.908m [K=1.0000]
Remarks:

LUMINANCE LIMITATION CURVES

Test:U:119.93V I:3.3257A P:398.10W PF:0.9981 Freq:59.98Hz Lamp Flux:57241.5x1 lm		
NAME: LED High Bay Light	TYPE:Flood Light	WEIGHT:N/A
SPEC.:400W/60°	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	14837	0
80	36882	0
75	59822	49571
70	83233	112552
65	106949	152678
60	208831	179559
55	428504	384798
50	622679	545636
45	736575	680788

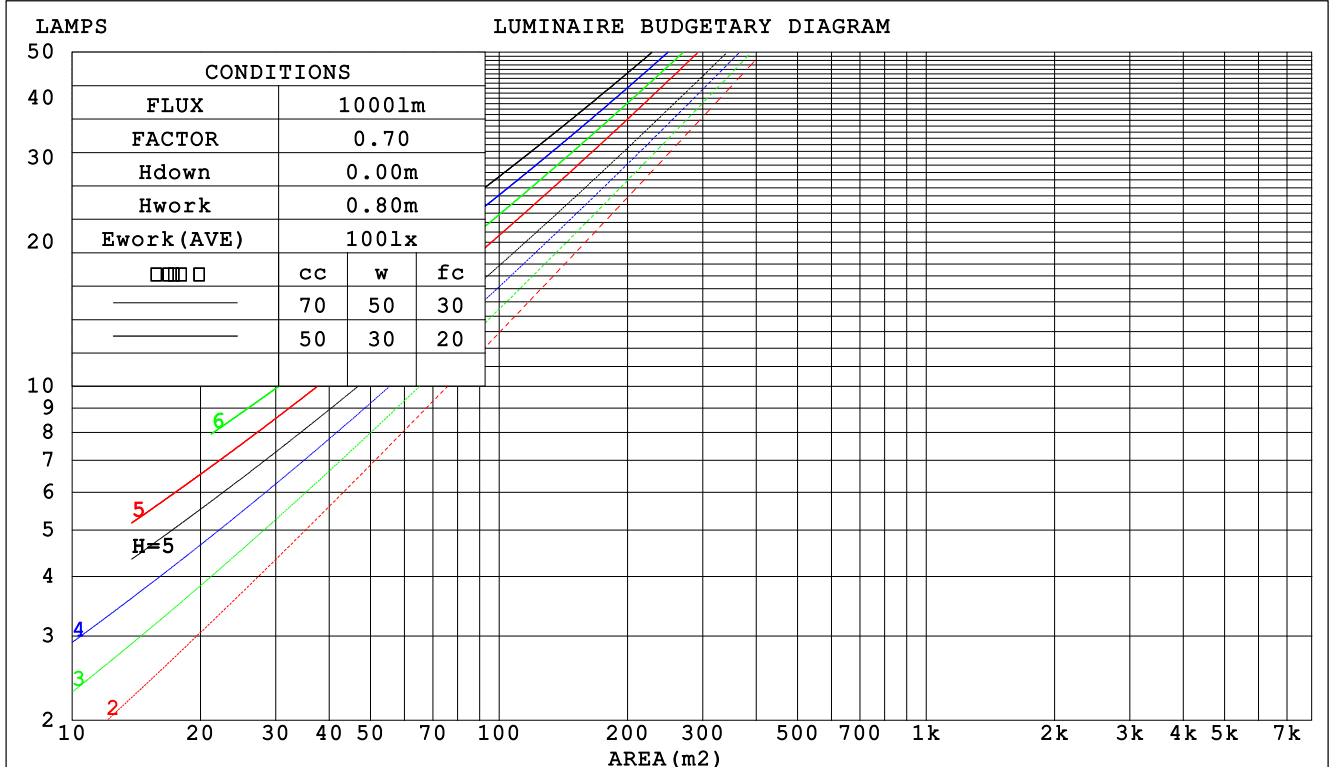
H(□) Range:-90 - 90DEG
H(□) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jessy
Test Date:2024-11-13

V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.411
Humidity:65%
Test Distance:6.908m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:119.93V I:3.3257A P:398.10W PF:0.9981 Freq:59.98Hz Lamp Flux:57241.5x1 lm		
NAME: LED High Bay Light	TYPE:Flood Light	WEIGHT:N/A
SPEC.:400W/60°	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:2024-11-13

V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.411
Humidity:65%
Test Distance:6.908m [K=1.0000]
Remarks:

WEC AND CCEC

Test:U:119.93V I:3.3257A P:398.10W PF:0.9981 Freq:59.98Hz Lamp Flux:57241.5x1 lm					
NAME: LED High Bay Light			TYPE:Flood Light		WEIGHT:N/A
SPEC.:400W/60°			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	.220	.125	.040	.214	.122	.039	.201	.115	.037	.189	.109	.035	.178	.103	.033		
2.0	.215	.118	.036	.210	.115	.036	.198	.110	.034	.188	.106	.033	.179	.101	.032		
3.0	.206	.110	.033	.201	.107	.032	.191	.104	.031	.182	.100	.031	.174	.096	.030		
4.0	.195	.101	.030	.191	.100	.030	.182	.097	.029	.175	.094	.028	.167	.091	.028		
5.0	.185	.094	.027	.181	.093	.027	.173	.090	.027	.166	.088	.026	.160	.086	.026		
6.0	.175	.088	.025	.171	.086	.025	.165	.084	.025	.158	.082	.024	.153	.080	.024		
7.0	.165	.082	.023	.162	.081	.023	.156	.079	.023	.151	.077	.023	.146	.076	.022		
8.0	.157	.077	.022	.154	.076	.021	.149	.074	.021	.144	.073	.021	.139	.071	.021		
9.0	.149	.072	.020	.146	.071	.020	.141	.070	.020	.137	.069	.020	.133	.067	.019		
10.0	.141	.068	.019	.139	.067	.019	.135	.066	.019	.131	.065	.018	.127	.064	.018		

□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	.174	.157	.141	.149	.135	.122	.102	.093	.084	.059	.054	.049	.019	.017	.016	
2.0	.162	.132	.107	.139	.114	.093	.095	.079	.065	.055	.046	.038	.018	.015	.012	
3.0	.152	.114	.083	.130	.098	.072	.090	.068	.051	.052	.040	.030	.017	.013	.010	
4.0	.144	.100	.066	.123	.086	.058	.085	.060	.041	.049	.035	.024	.016	.011	.008	
5.0	.136	.089	.054	.117	.077	.047	.080	.054	.033	.047	.032	.020	.015	.010	.006	
6.0	.129	.080	.045	.111	.069	.039	.077	.048	.028	.044	.029	.016	.014	.009	.005	
7.0	.123	.073	.038	.106	.063	.033	.073	.044	.023	.042	.026	.014	.014	.009	.005	
8.0	.117	.067	.032	.101	.058	.028	.070	.041	.020	.041	.024	.012	.013	.008	.004	
9.0	.112	.062	.028	.096	.054	.025	.067	.038	.017	.039	.022	.010	.013	.007	.003	
10.0	.107	.058	.025	.092	.050	.022	.064	.035	.015	.037	.021	.009	.012	.007	.003	

H(□) Range:-90 - 90DEG
H(□) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jessy
Test Date:2024-11-13

V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.411
Humidity:65%
Test Distance:6.908m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

Test:U:119.93V I:3.3257A P:398.10W PF:0.9981 Freq:59.98Hz Lamp Flux:57241.5x1 lm										
NAME: LED High Bay Light					TYPE:Flood Light			WEIGHT:N/A		
SPEC.:400W/60°					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	19.1	20.3	19.3	20.4	20.6	18.7	19.9	19.0	20.1	20.3
3H	19.0	20.1	19.3	20.3	20.5	18.9	20.0	19.1	20.2	20.4
4H	18.9	20.0	19.2	20.2	20.5	18.8	19.9	19.1	20.1	20.3
6H	18.9	19.8	19.2	20.1	20.4	18.7	19.7	19.0	20.0	20.2
8H	18.8	19.8	19.1	20.0	20.3	18.7	19.6	19.0	19.9	20.2
12H	18.8	19.7	19.1	20.0	20.2	18.6	19.5	19.0	19.8	20.1
4H 2H	19.2	20.2	19.5	20.5	20.7	18.9	19.9	19.2	20.1	20.4
3H	19.2	20.1	19.5	20.4	20.7	19.1	20.0	19.5	20.3	20.6
4H	19.1	20.0	19.5	20.3	20.6	19.1	19.9	19.5	20.2	20.5
6H	19.1	19.8	19.5	20.1	20.5	19.0	19.7	19.4	20.1	20.4
8H	19.0	19.7	19.4	20.1	20.4	19.0	19.6	19.4	20.0	20.4
12H	19.0	19.6	19.4	20.0	20.4	18.9	19.5	19.3	19.9	20.3
8H 4H	19.1	19.7	19.5	20.1	20.5	19.0	19.7	19.4	20.0	20.4
6H	19.0	19.6	19.4	20.0	20.4	18.9	19.5	19.4	19.9	20.3
8H	19.0	19.5	19.4	19.9	20.3	18.9	19.4	19.3	19.8	20.2
12H	18.9	19.3	19.4	19.8	20.3	18.8	19.2	19.3	19.7	20.2
12H 4H	19.0	19.6	19.4	20.0	20.4	19.0	19.6	19.4	20.0	20.3
6H	19.0	19.4	19.4	19.9	20.3	18.9	19.4	19.3	19.8	20.2
8H	18.9	19.3	19.4	19.8	20.3	18.8	19.2	19.3	19.7	20.2
Variations with the observer position at spacings:										
S = 1.0H	+ 1.0 / - 1.7					+ 1.0 / - 1.6				
1.5H	+ 0.6 / - 0.9					+ 0.5 / - 0.9				
2.0H	+ 2.2 / - 5.0					+ 2.0 / - 5.4				

CIE Pub.117, 57241 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 14.1)
Area: 0.024 m2

H(□) Range:-90 - 90DEG
H(□) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jessy
Test Date:2024-11-13

V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.411
Humidity:65%
Test Distance:6.908m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:119.93V I:3.3257A P:398.10W PF:0.9981 Freq:59.98Hz Lamp Flux:57241.5x1 lm		
NAME: LED High Bay Light	TYPE:Flood Light	WEIGHT:N/A
SPEC.:400W/60°	DIM.: 310*500mm	SERIAL No.:N/A
MFR.: Grin Industrial Co., Ltd.	SUR.:N/A	Shielding Angle:N/A

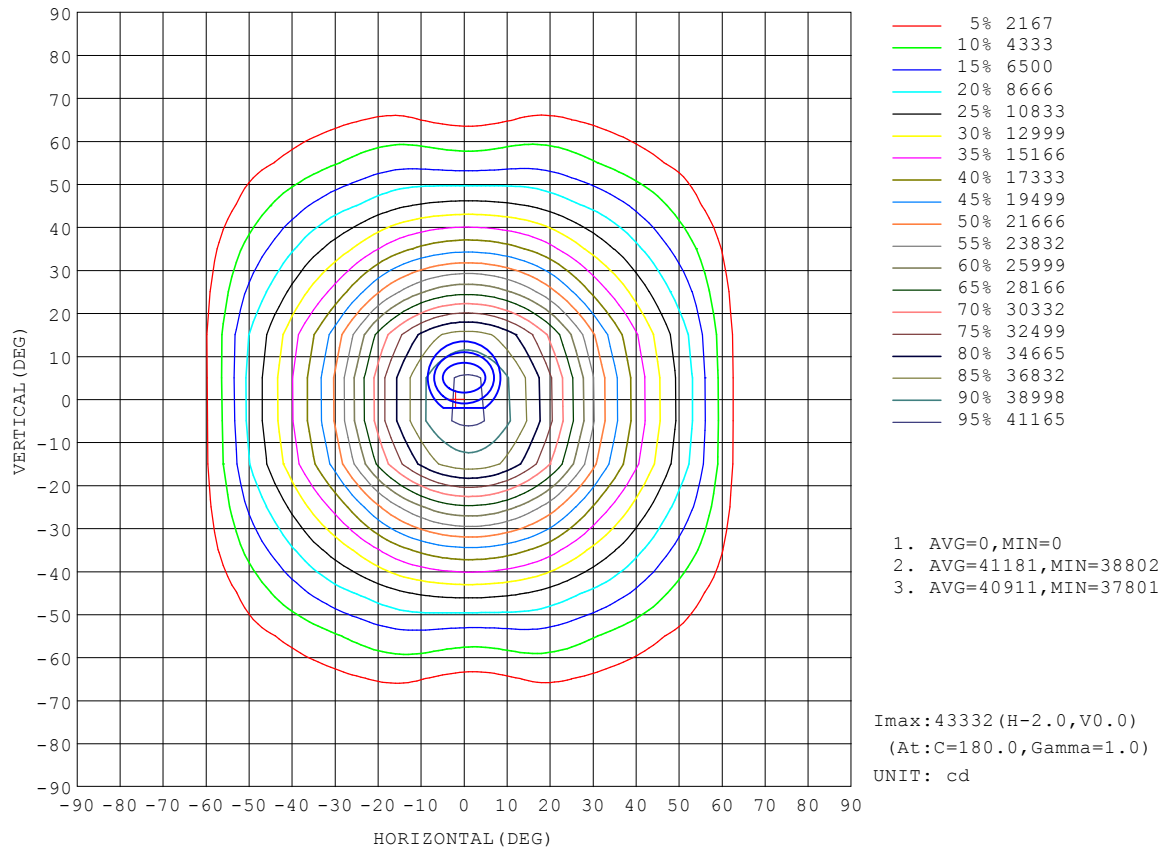
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	71	62	56	71	62	56	70	61	56	51
0.80	81	72	67	80	72	66	79	71	66	61
1.00	88	80	75	87	80	75	85	80	74	69
1.25	94	87	82	93	86	81	91	85	81	75
1.50	98	91	86	97	91	86	94	89	85	79
2.00	103	97	93	102	96	92	99	94	91	84
2.50	106	100	96	104	99	95	101	97	93	87
3.00	108	103	100	106	102	98	103	99	96	89
4.00	111	107	104	109	105	102	105	102	100	92
5.00	112	109	106	110	107	105	106	104	102	93
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:2024-11-13

V(B) Range:-75 - 75DEG
 V(B) Interval: 5.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.411
 Humidity:65%
 Test Distance:6.908m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:119.93V I:3.3257A P:398.10W PF:0.9981 Freq:59.98Hz Lamp Flux:57241.5x1 lm		
NAME: LED High Bay Light	TYPE:Flood Light	WEIGHT:N/A
SPEC.:400W/60°	DIM.: 310*500mm	SERIAL No.:N/A
MFR.: Grin Industrial Co., Ltd.	SUR.:N/A	Shielding Angle:N/A

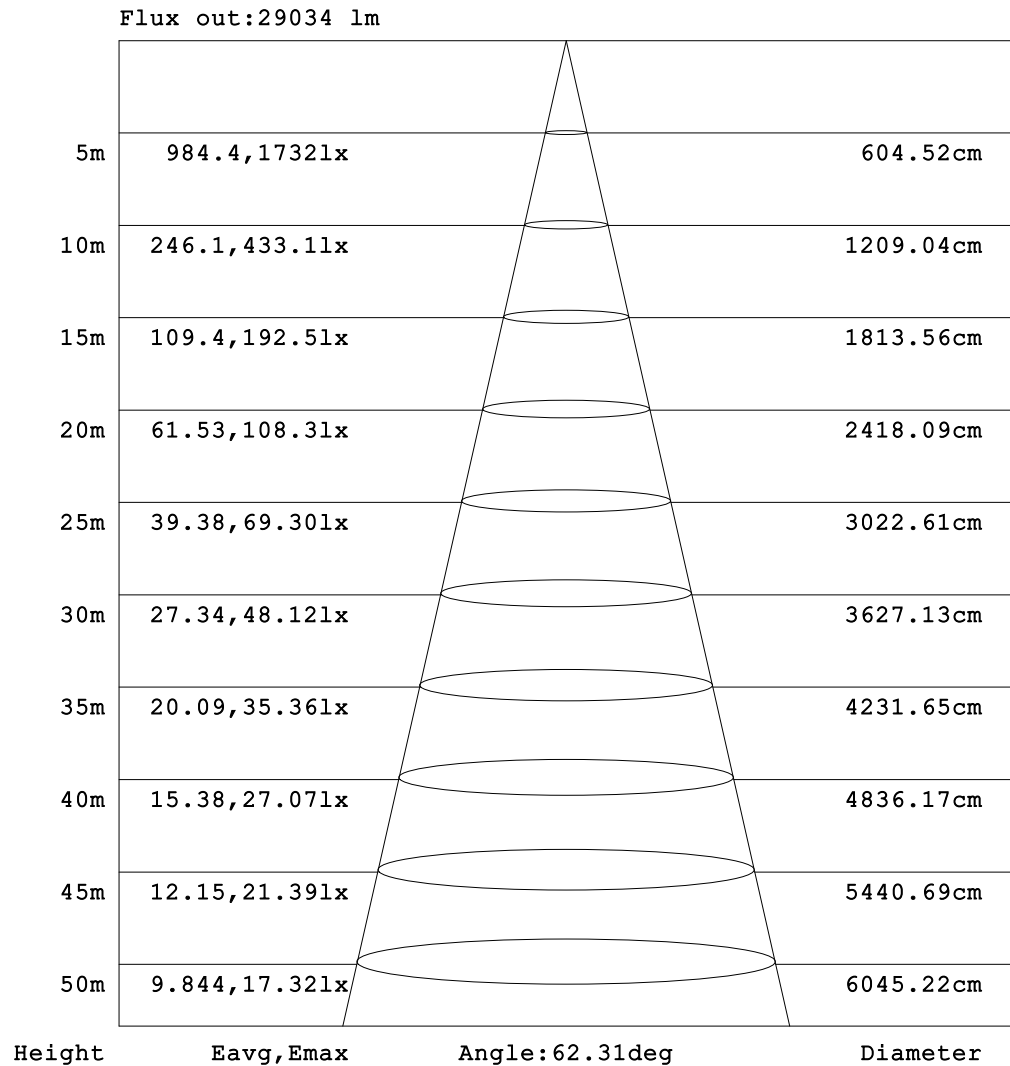


H(□) Range:-90 - 90DEG
H(□) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jessy
Test Date:2024-11-13

V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.411
Humidity:65%
Test Distance:6.908m [K=1.0000]
Remarks:

AAI Figure

Test:U:119.93V I:3.3257A P:398.10W PF:0.9981 Freq:59.98Hz Lamp Flux:57241.5x1 lm		
NAME: LED High Bay Light	TYPE:Flood Light	WEIGHT:N/A
SPEC.:400W/60°	DIM.: 310*500mm	SERIAL No.:N/A
MFR.: Grin Industrial Co., Ltd.	SUR.:N/A	Shielding Angle:N/A



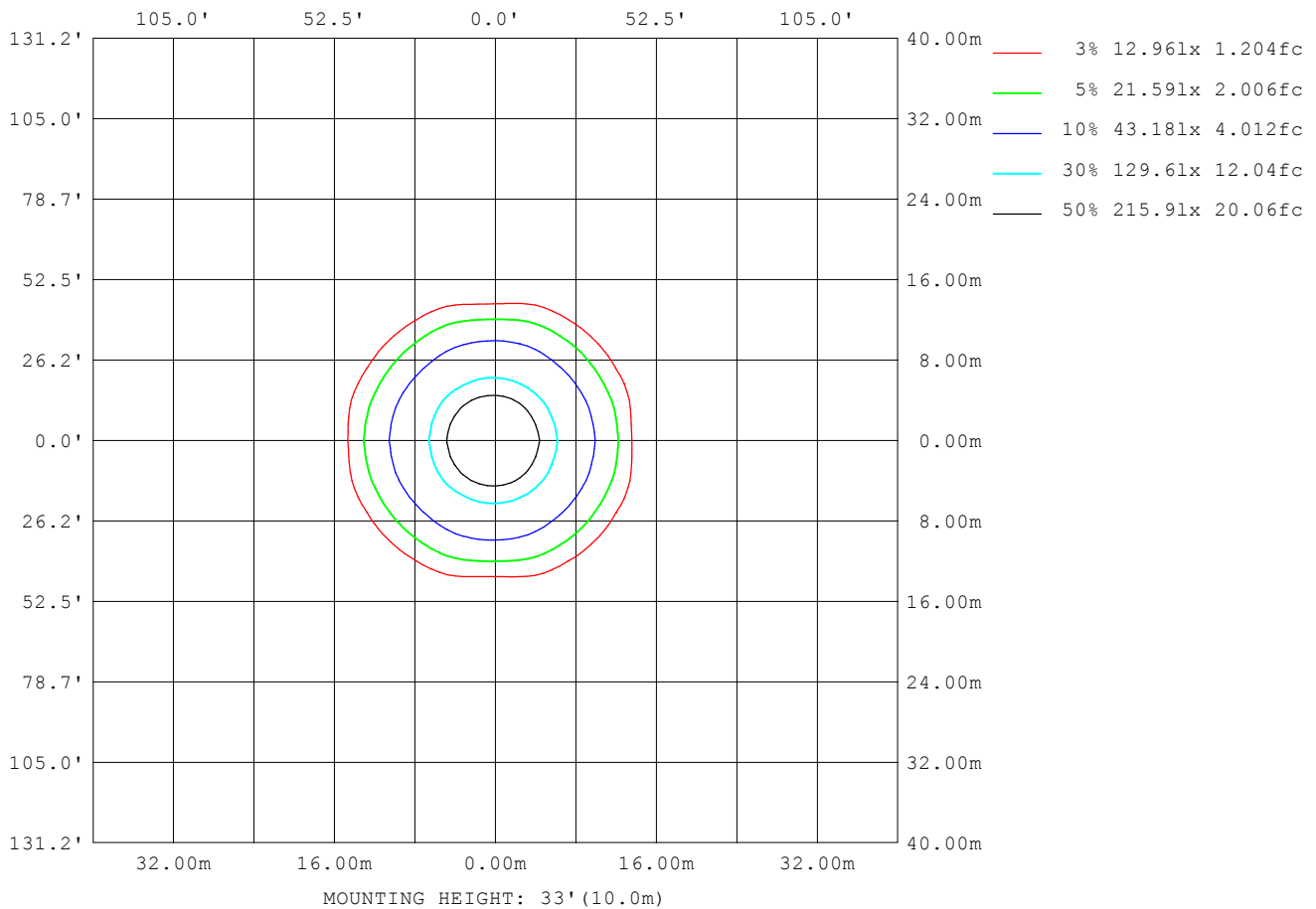
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

H(□) Range:-90 - 90DEG
H(□) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jessy
Test Date:2024-11-13

V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.411
Humidity:65%
Test Distance:6.908m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

Test:U:119.93V I:3.3257A P:398.10W PF:0.9981 Freq:59.98Hz Lamp Flux:57241.5x1 lm		
NAME: LED High Bay Light	TYPE:Flood Light	WEIGHT:N/A
SPEC.:400W/60°	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:2024-11-13

V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.411
Humidity:65%
Test Distance:6.908m [K=1.0000]
Remarks:

LED Avg.L Report

Test:U:119.93V I:3.3257A P:398.10W PF:0.9981 Freq:59.98Hz Lamp Flux:57241.5x1 lm		
NAME: LED High Bay Light	TYPE:Flood Light	WEIGHT:N/A
SPEC.:400W/60°	DIM.: 310*500mm	SERIAL No.:N/A
MFR.: Grin Industrial Co., Ltd.	SUR.:N/A	Shielding Angle:N/A

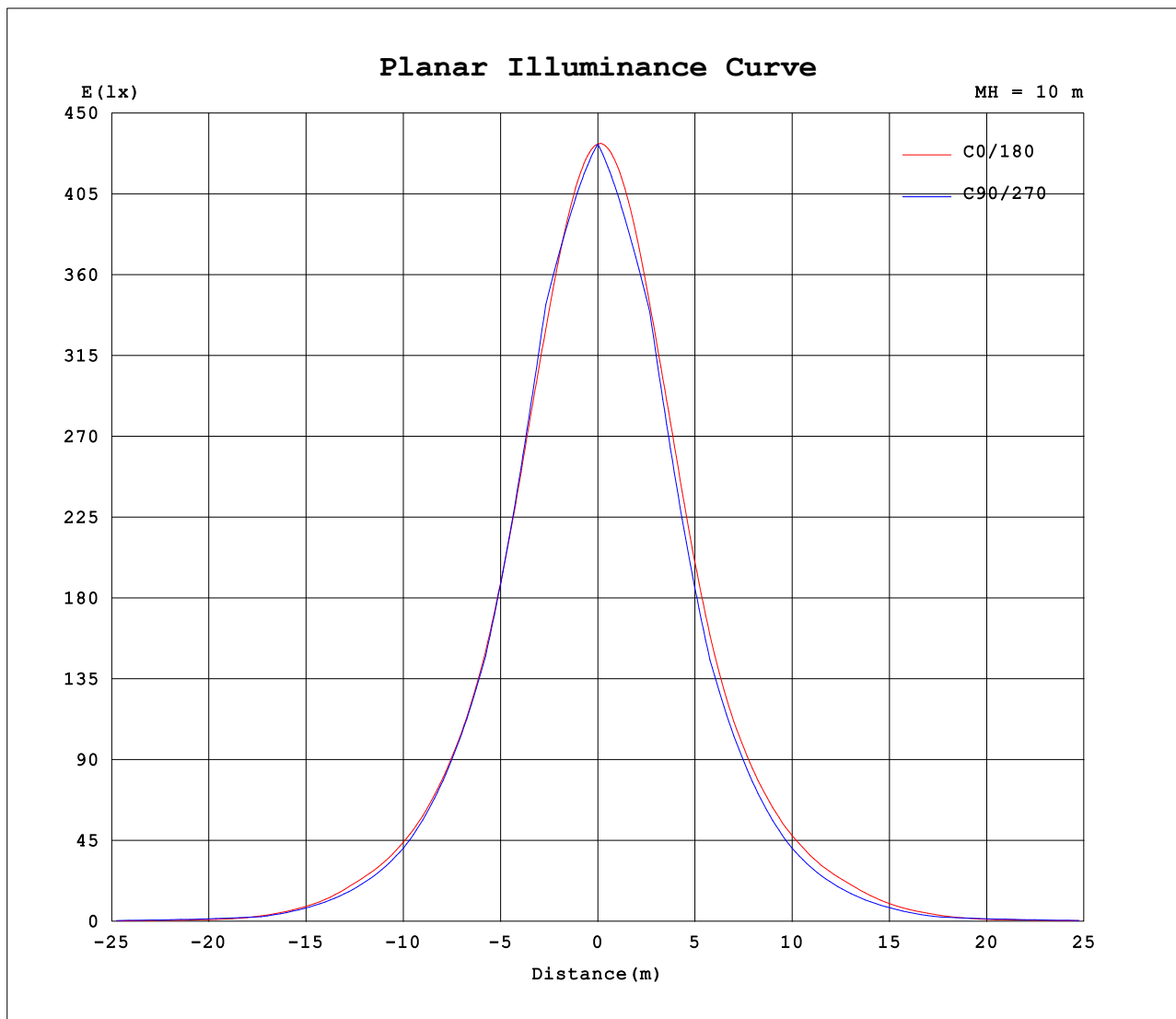
AvgL	cd/m2
L_0~180 (65) av	113707
L_0~180 (75) av	64902
L_0~180 (85) av	19982
L_90~270 (65) av	154827
L_90~270 (75) av	49670
L_90~270 (85) av	0
L_45 (65) av	238248
L_45 (75) av	88381
L_45 (85) av	0

Standard: GB/T 29293-2012

H(□) Range:-90 - 90DEG
H(□) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jessy
Test Date:2024-11-13

V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.411
Humidity:65%
Test Distance:6.908m [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:2024-11-13

V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.411
Humidity:65%
Test Distance:6.908m [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:6.908m [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:6.908m [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:6.908m [K=1.0000]
Remarks:

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