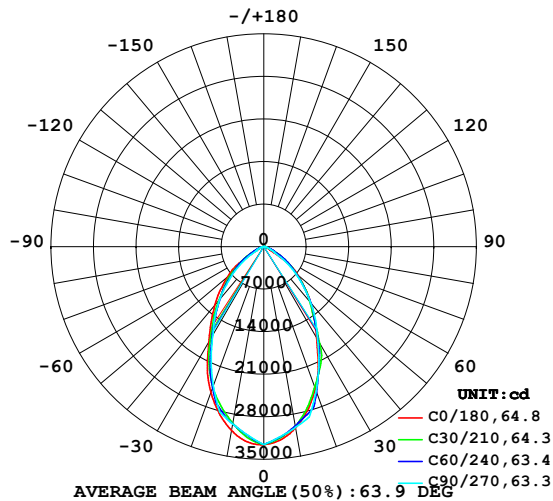


LUMINAIRE PHOTOMETRIC TEST REPORT

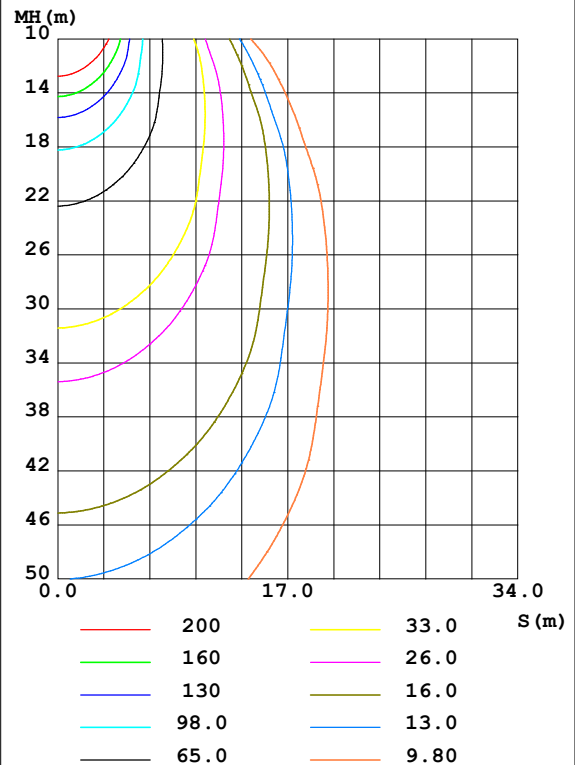
Test:U:119.95V I:2.4669A P:294.80W PF:0.9963 Freq:59.98Hz Lamp Flux:43393.9x1 lm		
NAME: LED High Bay Light	TYPE:Flood Light	WEIGHT:N/A
SPEC.:300W/5000K/60°	DIM.: 230*530mm	SERIAL No.:N/A
MFR.: Grin Industrial Co., Ltd.	SUR.:N/A	Shielding Angle:N/A

DATA OF LAMP		PHOTOMETRIC DATA Eff: 147.20 lm/W			
MODEL	GSM-45-U	I _{max} (cd)	32589	S/MH(C0/180)	0.94
NOMINAL POWER(W)	300	LOR(%)	100.0	S/MH(C90/270)	0.89
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	43394	□ UP,DN(C0-180)	0.0,51.0
NOMINAL FLUX(lm)	43393.9	CIE CLASS	DIRECT	□ UP,DN(C180-360)	0.0,49.0
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	3026	2988	3019	2993	3071	2951	2962	2949	0- 10	2953	2953	6.81, 6.81
20	2484	2577	2524	2557	2549	2479	2433	2501	10- 20	7769	10723	24.7, 24.7
30	1744	1813	1771	1833	1809	1760	1672	1751	20- 30	9748	20470	47.2, 47.2
40	1197	1137	1203	1167	1253	1111	1125	1089	30- 40	9034	29504	68, 68
50	740.1	712.5	684.5	743.6	782.0	688.4	619.4	681.6	40- 50	7153	36657	84.5, 84.5
60	151.4	349.9	214.9	369.7	176.9	324.3	156.4	328.0	50- 60	4508	41165	94.9, 94.9
70	62.80	88.34	94.59	89.80	64.89	70.36	68.90	80.03	60- 70	1739	42904	98.9, 98.9
80	15.56	15.79	0	13.72	15.34	9.339	0	12.57	70- 80	465.4	43369	99.9, 99.9
90	0.4152	0	0	0	0.3798	0	0	0	80- 90	24.85	43394	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): 33377 lm

%lum = 76.9%

%lamp = 76.9%

Conical surface Flux(120deg): 41165 lm

%lum = 94.9%

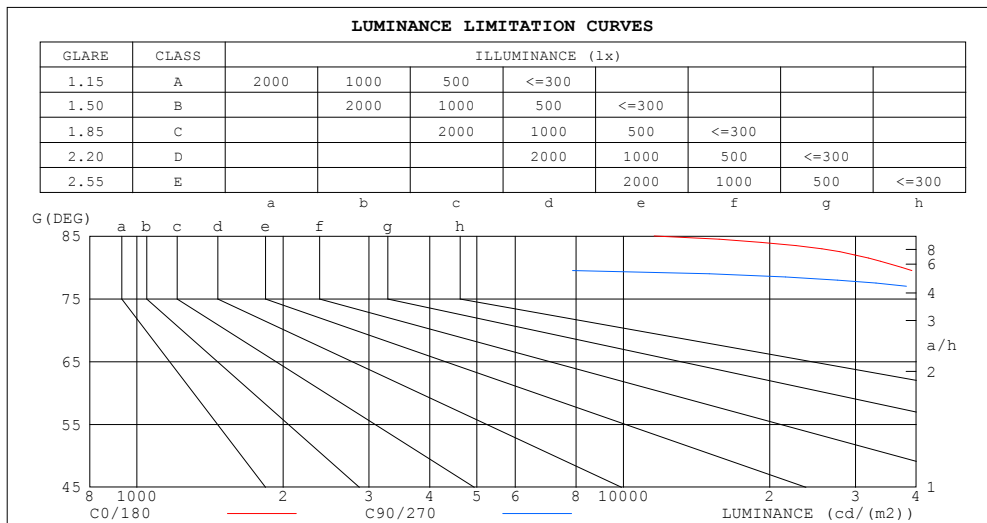
%lamp = 94.9%

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:119.95V I:2.4669A P:294.80W PF:0.9963 Freq:59.98Hz Lamp Flux:43393.9x1 lm		
NAME: LED High Bay Light	TYPE:Flood Light	WEIGHT:N/A
SPEC.:300W/5000K/60°	DIM.: 230*530mm	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	11579	0
80	37340	0
75	55942	55347
70	76509	115235
65	94120	152799
60	126139	179111
55	374107	326936
50	479754	443735
45	557982	541879

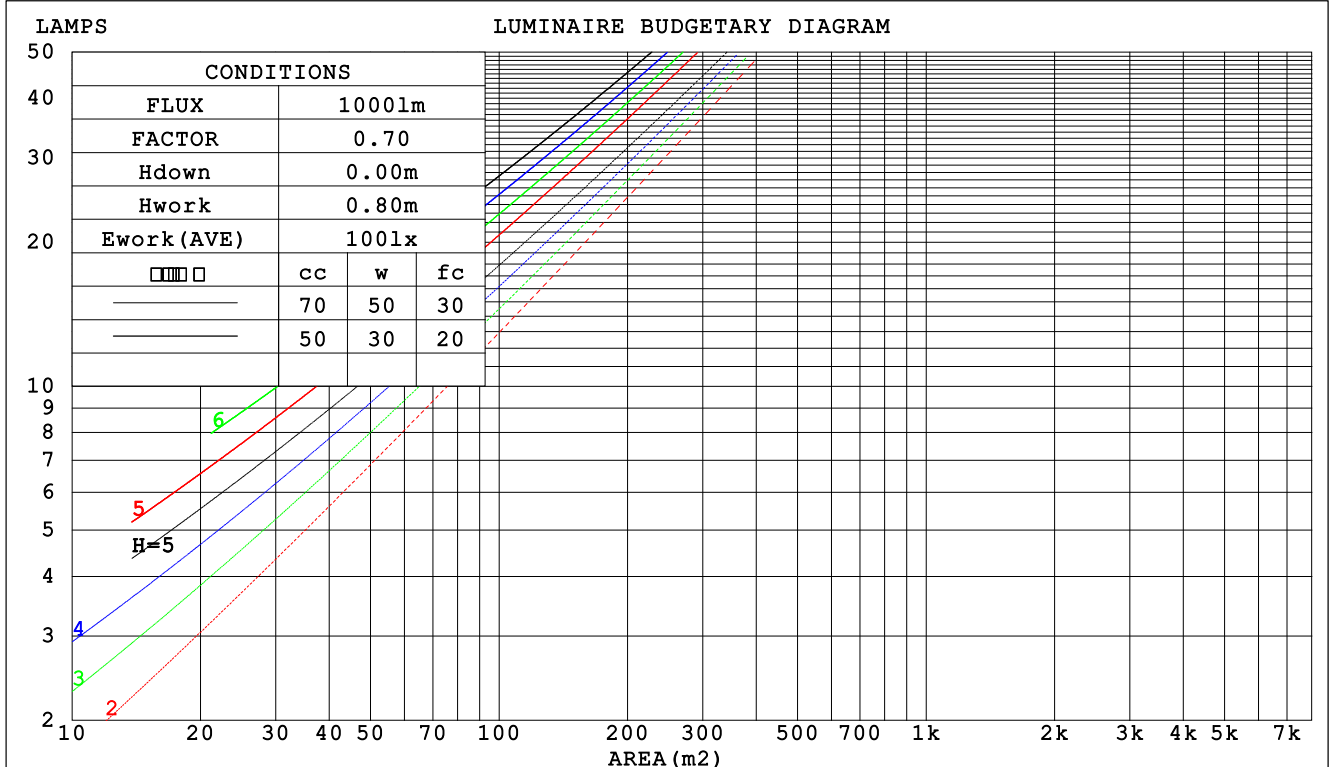
H(□) Range:-90 - 90DEG
H(□) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jessy
Test Date:2024-11-13

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:119.95V I:2.4669A P:294.80W PF:0.9963 Freq:59.98Hz Lamp Flux:43393.9x1 lm		
NAME: LED High Bay Light	TYPE:Flood Light	WEIGHT:N/A
SPEC.:300W/5000K/60°	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:2024-11-13

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:119.95V I:2.4669A P:294.80W PF:0.9963 Freq:59.98Hz Lamp Flux:43393.9x1 lm		
NAME: LED High Bay Light	TYPE:Flood Light	WEIGHT:N/A
SPEC.:300W/5000K/60°	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	.221	.126	.040	.215	.122	.039	.202	.116	.037	.190	.110	.035	.179	.104	.033		
2.0	.216	.119	.036	.210	.116	.036	.199	.111	.034	.189	.106	.033	.180	.102	.032		
3.0	.207	.110	.033	.201	.108	.032	.192	.104	.032	.183	.100	.031	.175	.097	.030		
4.0	.196	.102	.030	.191	.100	.030	.183	.097	.029	.175	.094	.028	.168	.091	.028		
5.0	.185	.094	.027	.181	.093	.027	.174	.091	.027	.167	.088	.026	.161	.086	.026		
6.0	.175	.088	.025	.172	.087	.025	.165	.085	.025	.159	.083	.024	.153	.081	.024		
7.0	.166	.082	.023	.163	.081	.023	.157	.079	.023	.151	.078	.023	.146	.076	.022		
8.0	.157	.077	.022	.154	.076	.021	.149	.074	.021	.144	.073	.021	.139	.072	.021		
9.0	.149	.072	.020	.147	.071	.020	.142	.070	.020	.137	.069	.020	.133	.068	.020		
10.0	.142	.068	.019	.139	.067	.019	.135	.066	.019	.131	.065	.019	.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	.131	.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	.081	.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:119.95V I:2.4669A P:294.80W PF:0.9963 Freq:59.98Hz Lamp Flux:43393.9x1 lm										
NAME: LED High Bay Light					TYPE:Flood Light			WEIGHT:N/A		
SPEC.:300W/5000K/60°					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	19.2	20.4	19.4	20.6	20.8	19.2	20.4	19.4	20.6	20.7
3H	19.2	20.3	19.4	20.5	20.7	19.4	20.5	19.7	20.7	21.0
4H	19.1	20.2	19.4	20.4	20.6	19.4	20.4	19.7	20.7	20.9
6H	19.0	20.0	19.3	20.3	20.5	19.3	20.3	19.6	20.5	20.8
8H	19.0	19.9	19.3	20.2	20.5	19.3	20.2	19.6	20.5	20.7
12H	18.9	19.8	19.3	20.1	20.4	19.2	20.1	19.5	20.4	20.7
4H 2H	19.3	20.4	19.6	20.6	20.9	19.3	20.4	19.6	20.6	20.8
3H	19.4	20.3	19.7	20.6	20.8	19.7	20.6	20.0	20.9	21.2
4H	19.3	20.2	19.7	20.5	20.8	19.7	20.5	20.1	20.8	21.1
6H	19.3	20.0	19.7	20.4	20.7	19.6	20.3	20.0	20.7	21.0
8H	19.3	19.9	19.7	20.3	20.7	19.6	20.2	20.0	20.6	21.0
12H	19.2	19.8	19.6	20.2	20.6	19.5	20.1	19.9	20.5	20.9
8H 4H	19.3	20.0	19.7	20.3	20.7	19.6	20.3	20.0	20.6	21.0
6H	19.3	19.8	19.7	20.2	20.6	19.5	20.1	20.0	20.5	20.9
8H	19.2	19.7	19.7	20.1	20.6	19.5	20.0	19.9	20.4	20.8
12H	19.2	19.6	19.7	20.0	20.5	19.4	19.8	19.9	20.3	20.8
12H 4H	19.2	19.8	19.7	20.2	20.6	19.6	20.2	20.0	20.5	20.9
6H	19.2	19.7	19.7	20.1	20.6	19.5	20.0	19.9	20.4	20.8
8H	19.2	19.6	19.6	20.0	20.5	19.4	19.9	19.9	20.3	20.8
Variations with the observer position at spacings:										
S = 1.0H	+ 0.8 / - 1.5					+ 0.9 / - 1.4				
1.5H	+ 0.6 / - 0.9					+ 0.4 / - 0.7				
2.0H	+ 2.1 / - 5.8					+ 1.8 / - 4.3				

CIE Pub.117, 43394 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:2024-11-13

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:119.95V I:2.4669A P:294.80W PF:0.9963 Freq:59.98Hz Lamp Flux:43393.9x1 lm		
NAME: LED High Bay Light	TYPE:Flood Light	WEIGHT:N/A
SPEC.:300W/5000K/60°	DIM.: 230*530mm	SERIAL No.:N/A
MFR.: Grin Industrial Co., Ltd.	SUR.:N/A	Shielding Angle:N/A

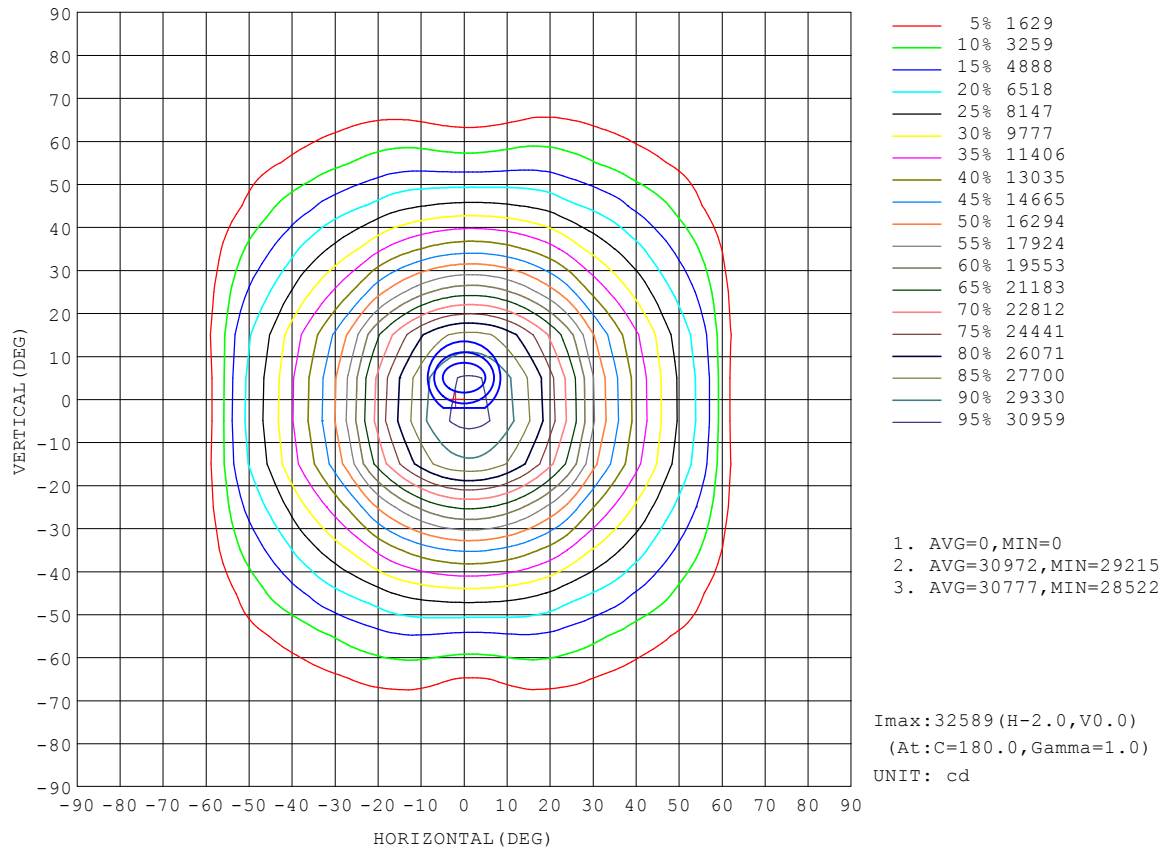
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	71	62	56	70	62	56	69	61	56	51
0.80	81	72	66	80	72	66	78	71	66	60
1.00	88	80	75	87	79	74	85	80	74	68
1.25	94	87	81	93	86	81	91	85	80	75
1.50	98	91	86	97	90	86	94	89	85	79
2.00	103	97	93	101	96	92	98	94	90	84
2.50	106	100	96	104	99	95	100	96	93	86
3.00	108	103	99	106	102	98	102	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:119.95V I:2.4669A P:294.80W PF:0.9963 Freq:59.98Hz Lamp Flux:43393.9x1 lm		
NAME: LED High Bay Light	TYPE:Flood Light	WEIGHT:N/A
SPEC.:300W/5000K/60°	DIM.: 230*530mm	SERIAL No.:N/A
MFR.: Grin Industrial Co., Ltd.	SUR.:N/A	Shielding Angle:N/A

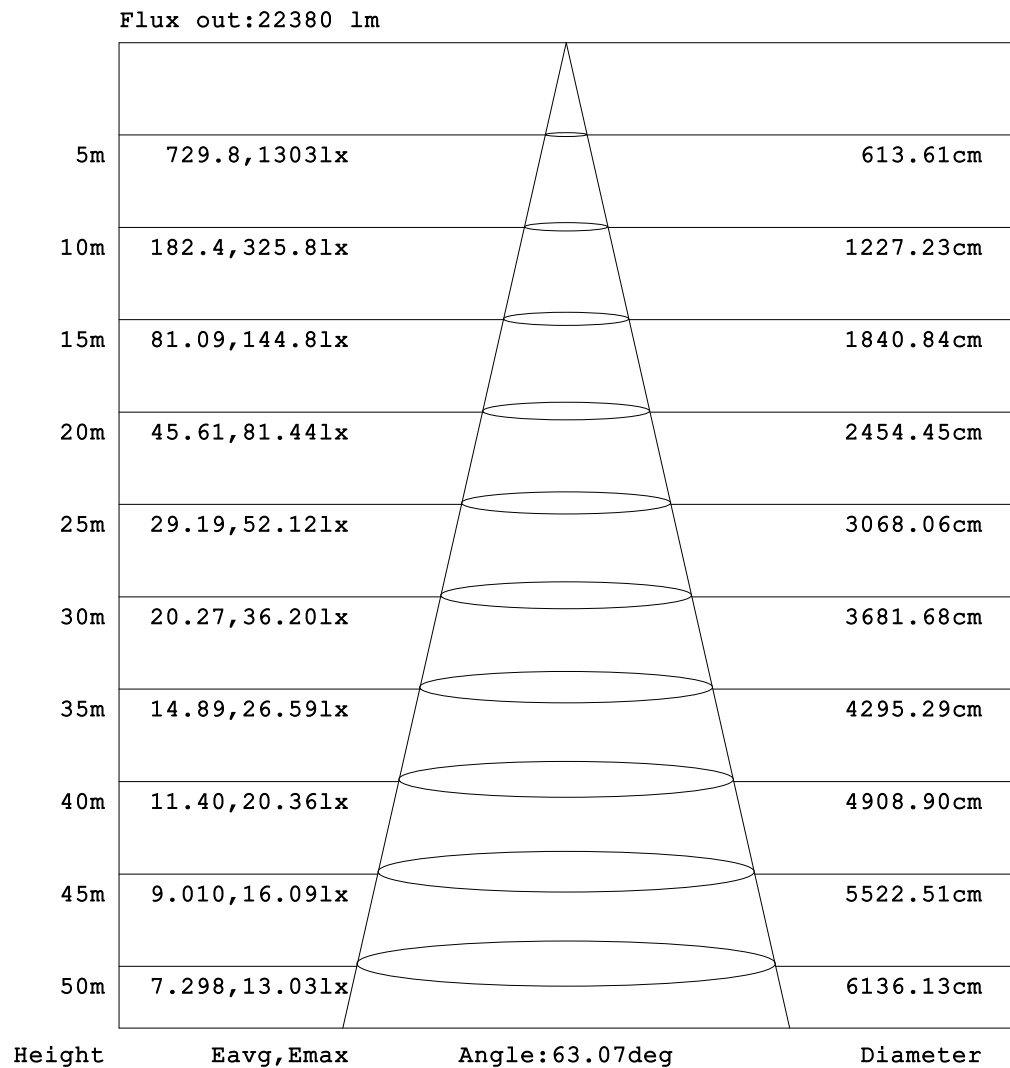


H(□) Range:-90 - 90DEG
H(□) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jessy
Test Date:2024-11-13

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:119.95V I:2.4669A P:294.80W PF:0.9963 Freq:59.98Hz Lamp Flux:43393.9x1 lm		
NAME: LED High Bay Light	TYPE:Flood Light	WEIGHT:N/A
SPEC.:300W/5000K/60°	DIM.: 230*530mm	SERIAL No.:N/A
MFR.: Grin Industrial Co., Ltd.	SUR.:N/A	Shielding Angle:N/A



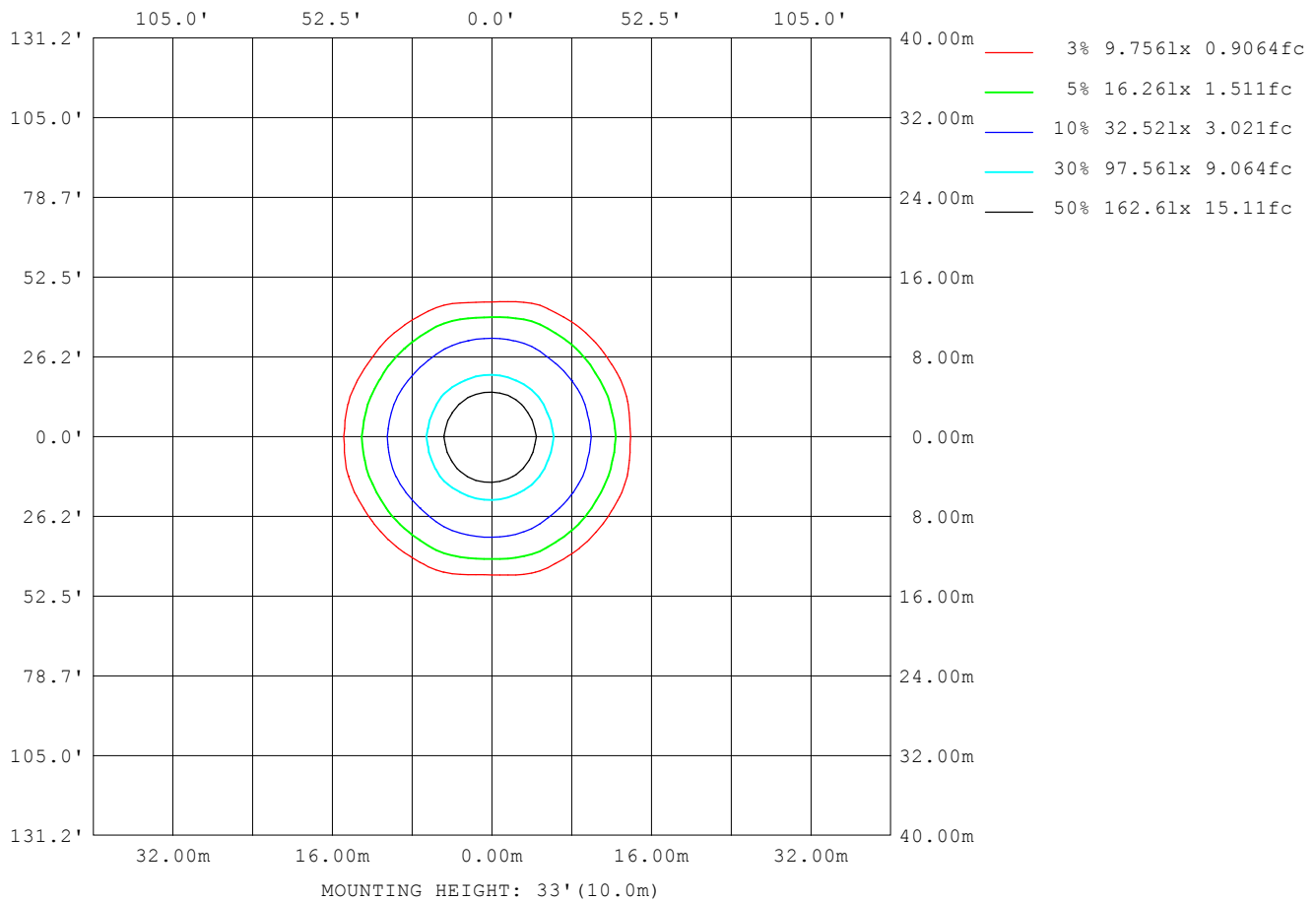
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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

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:119.95V I:2.4669A P:294.80W PF:0.9963 Freq:59.98Hz Lamp Flux:43393.9x1 lm		
NAME: LED High Bay Light	TYPE:Flood Light	WEIGHT:N/A
SPEC.:300W/5000K/60°	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:2024-11-13

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:119.95V I:2.4669A P:294.80W PF:0.9963 Freq:59.98Hz Lamp Flux:43393.9x1 lm		
NAME: LED High Bay Light	TYPE:Flood Light	WEIGHT:N/A
SPEC.:300W/5000K/60°	DIM.: 230*530mm	SERIAL No.:N/A
MFR.: Grin Industrial Co., Ltd.	SUR.:N/A	Shielding Angle:N/A

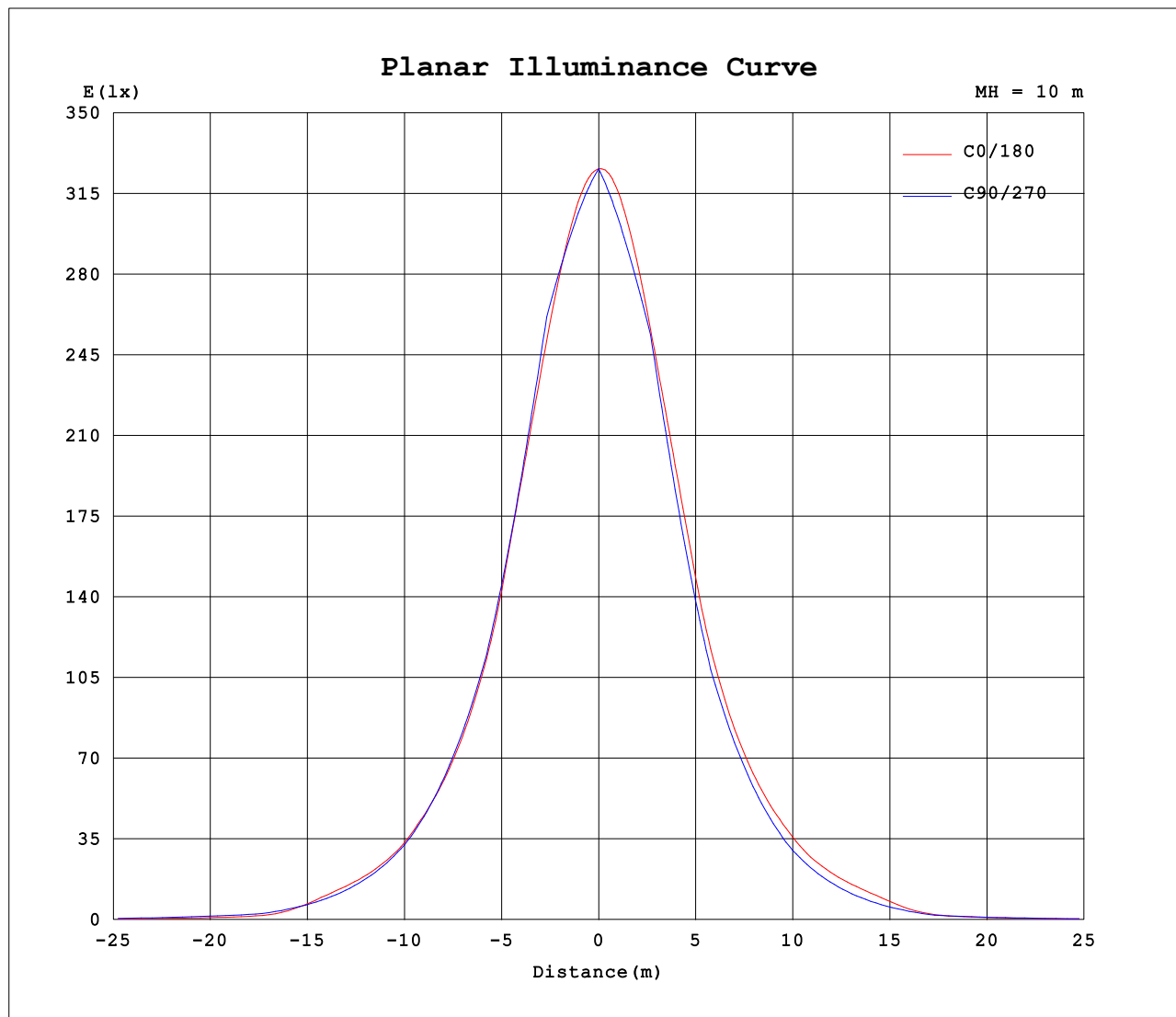
AvgL	cd/m2
L_0~180 (65) av	95912
L_0~180 (75) av	56656
L_0~180 (85) av	14293
L_90~270 (65) av	131736
L_90~270 (75) av	47907
L_90~270 (85) av	0
L_45 (65) av	182046
L_45 (75) av	71035
L_45 (85) av	0

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
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