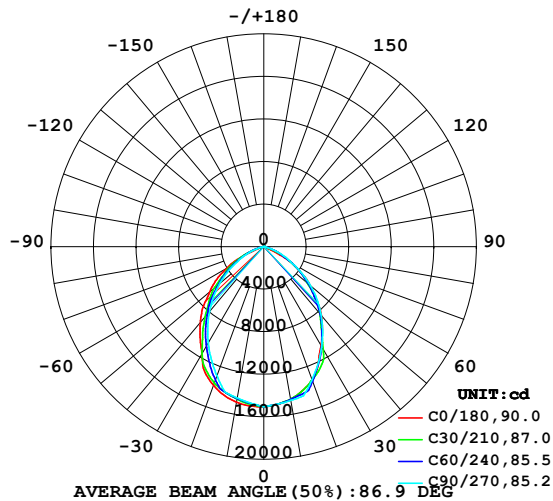


LUMINAIRE PHOTOMETRIC TEST REPORT

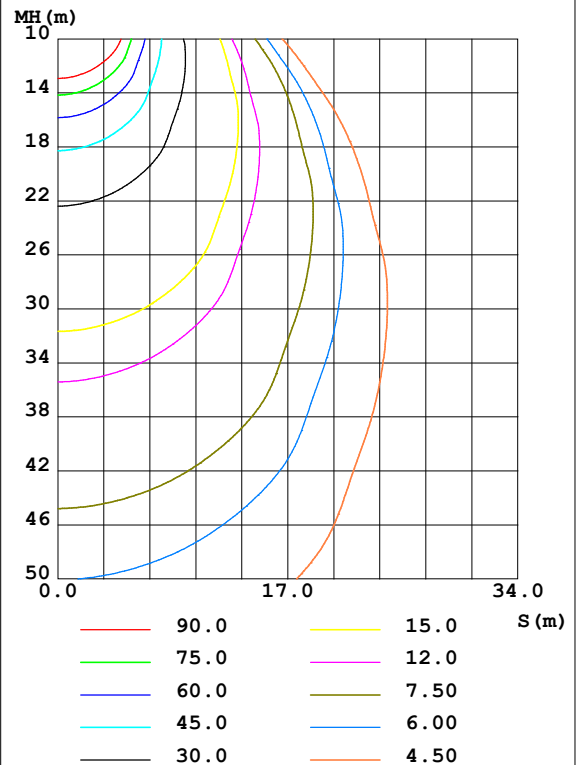
Test:U:220.06V I:0.9159A P:196.65W PF:0.9756 Freq:59.98Hz Lamp Flux:28894.6x1 lm		
NAME: LED High Bay Light	TYPE:Flood Light	WEIGHT:N/A
SPEC.:200W	DIM.: 210*280mm	SERIAL No.:N/A
MFR.: Grin Industrial Co., Ltd.	SUR.:N/A	Shielding Angle:N/A

DATA OF LAMP		PHOTOMETRIC DATA Eff: 146.94 lm/W			
MODEL	GSM-30-U	Imax(cd)	15054	S/MH(C0/180)	1.16
NOMINAL POWER(W)	200	LOR(%)	100.0	S/MH(C90/270)	1.07
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	28895	□ UP,DN(C0-180)	0.0,50.6
NOMINAL FLUX(lm)	28894.6	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	1457	1455	1469	1469	1485	1453	1445	1439	0- 10	1409	1409	4.88, 4.88
20	1333	1372	1331	1392	1387	1365	1292	1342	10- 20	3985	5394	18.7, 18.7
30	1077	1101	1091	1151	1166	1123	1046	1077	20- 30	5657	11051	38.2, 38.2
40	843.5	791.3	838.7	854.5	929.0	825.8	795.2	768.4	30- 40	6049	17099	59.2, 59.2
50	573.2	542.5	575.8	609.9	665.3	587.7	543.7	518.8	40- 50	5454	22553	78.1, 78.1
60	291.9	287.0	301.9	351.4	398.5	337.8	291.4	272.4	50- 60	3988	26542	91.9, 91.9
70	28.59	86.41	111.6	120.6	43.70	114.9	106.5	80.04	60- 70	1949	28491	98.6, 98.6
80	6.011	5.624	0	7.937	12.48	6.813	0	4.975	70- 80	389.7	28881	100, 100
90	0.4503	0	0	0	0.3830	0	0	0	80- 90	14.06	28895	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): 19962 lm

%lum = 69.1%

%lamp = 69.1%

Conical surface Flux(120deg): 26542 lm

%lum = 91.9%

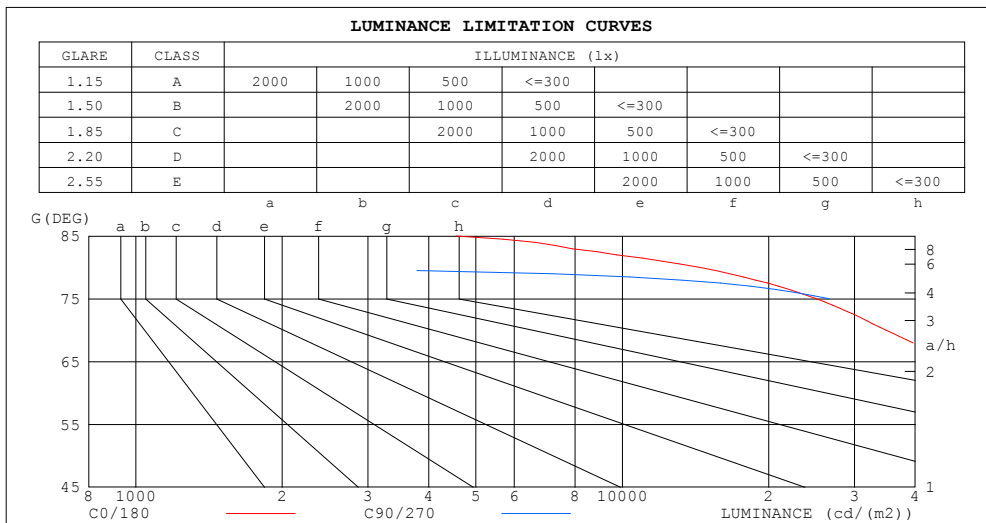
%lamp = 91.9%

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:220.06V I:0.9159A P:196.65W PF:0.9756 Freq:59.98Hz Lamp Flux:28894.6x1 lm		
NAME: LED High Bay Light	TYPE:Flood Light	WEIGHT:N/A
SPEC.:200W	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	4551	0
80	14424	0
75	25079	26638
70	34834	135983
65	61267	204287
60	243229	251579
55	312615	319340
50	371541	373250
45	408066	420567

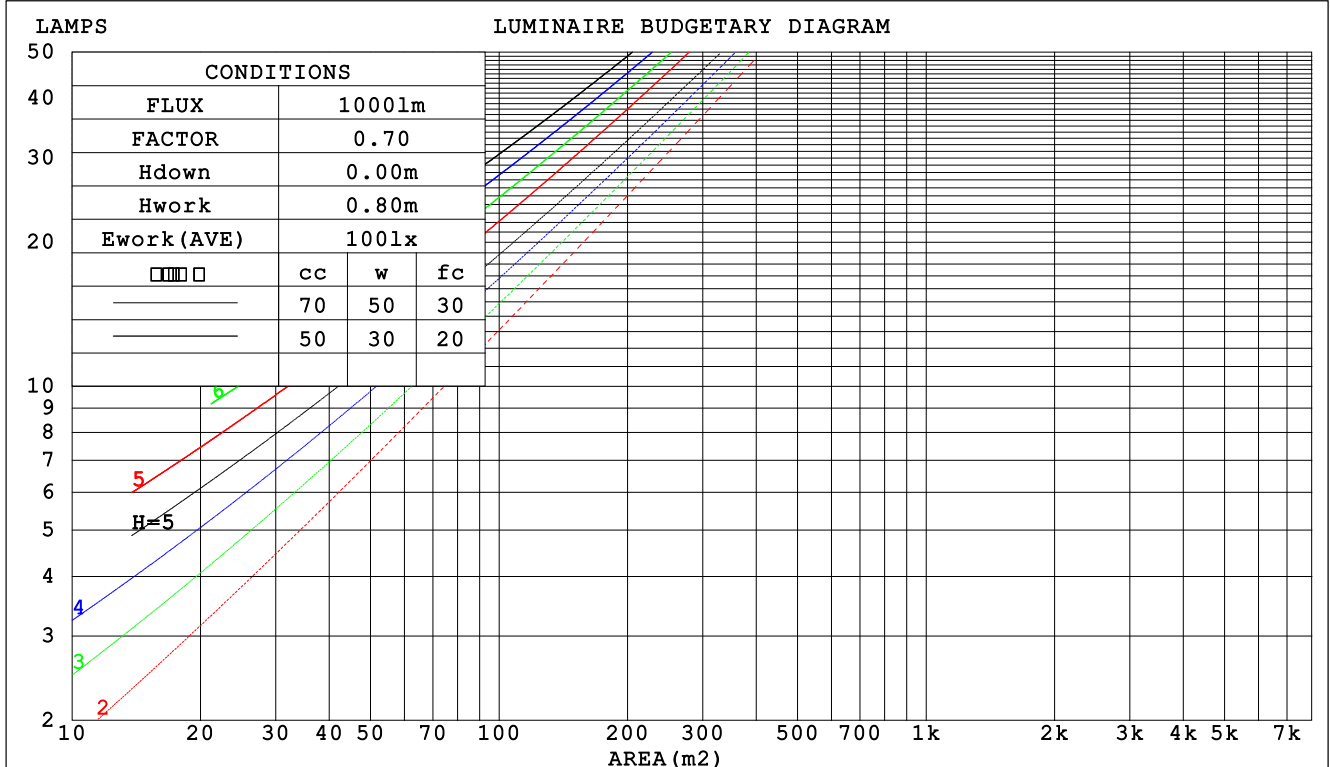
H(□) Range:-90 - 90DEG
H(□) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jessy
Test Date:2024-11-07

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:220.06V I:0.9159A P:196.65W PF:0.9756 Freq:59.98Hz Lamp Flux:28894.6x1 lm		
NAME: LED High Bay Light	TYPE:Flood Light	WEIGHT:N/A
SPEC.:200W	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:220.06V I:0.9159A P:196.65W PF:0.9756 Freq:59.98Hz Lamp Flux:28894.6x1 lm					
NAME: LED High Bay Light			TYPE:Flood Light		WEIGHT:N/A
SPEC.:200W			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	.209	.120	.039	.198	.115	.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	.031		
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	.051	.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:220.06V I:0.9159A P:196.65W PF:0.9756 Freq:59.98Hz Lamp Flux:28894.6x1 lm										
NAME: LED High Bay Light					TYPE:Flood Light			WEIGHT:N/A		
SPEC.:200W					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	20.4	21.7	20.7	21.9	22.1	20.5	21.8	20.7	22.0	22.2
3H	20.4	21.6	20.6	21.8	22.0	21.0	22.2	21.2	22.4	22.6
4H	20.3	21.4	20.6	21.7	21.9	20.9	22.1	21.2	22.3	22.5
6H	20.2	21.3	20.5	21.5	21.8	20.8	21.9	21.1	22.2	22.4
8H	20.1	21.2	20.5	21.4	21.7	20.8	21.8	21.1	22.1	22.4
12H	20.1	21.1	20.4	21.4	21.6	20.7	21.7	21.1	22.0	22.3
4H 2H	20.6	21.7	20.9	22.0	22.2	20.7	21.8	21.0	22.1	22.3
3H	20.6	21.6	21.0	21.9	22.2	21.2	22.2	21.6	22.5	22.8
4H	20.5	21.4	20.9	21.7	22.1	21.2	22.1	21.6	22.4	22.7
6H	20.5	21.2	20.8	21.6	21.9	21.1	21.9	21.5	22.2	22.6
8H	20.4	21.1	20.8	21.5	21.9	21.1	21.8	21.5	22.2	22.5
12H	20.4	21.0	20.8	21.4	21.8	21.0	21.7	21.4	22.1	22.5
8H 4H	20.5	21.2	20.9	21.6	21.9	21.1	21.8	21.5	22.2	22.6
6H	20.4	21.0	20.8	21.4	21.8	21.0	21.6	21.5	22.0	22.4
8H	20.4	20.9	20.8	21.3	21.7	21.0	21.5	21.4	21.9	22.4
12H	20.3	20.8	20.8	21.2	21.7	20.9	21.4	21.4	21.8	22.3
12H 4H	20.4	21.1	20.8	21.5	21.9	21.1	21.7	21.5	22.1	22.5
6H	20.4	20.9	20.8	21.3	21.7	21.0	21.5	21.4	21.9	22.4
8H	20.3	20.8	20.8	21.2	21.7	20.9	21.4	21.4	21.8	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 / - 1.7					+ 1.4 / - 2.1				

CIE Pub.117, 28895 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 11.7)
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:220.06V I:0.9159A P:196.65W PF:0.9756 Freq:59.98Hz Lamp Flux:28894.6x1 lm		
NAME: LED High Bay Light	TYPE:Flood Light	WEIGHT:N/A
SPEC.:200W	DIM.: 210*280mm	SERIAL No.:N/A
MFR.: Grin Industrial Co., Ltd.	SUR.:N/A	Shielding Angle:N/A

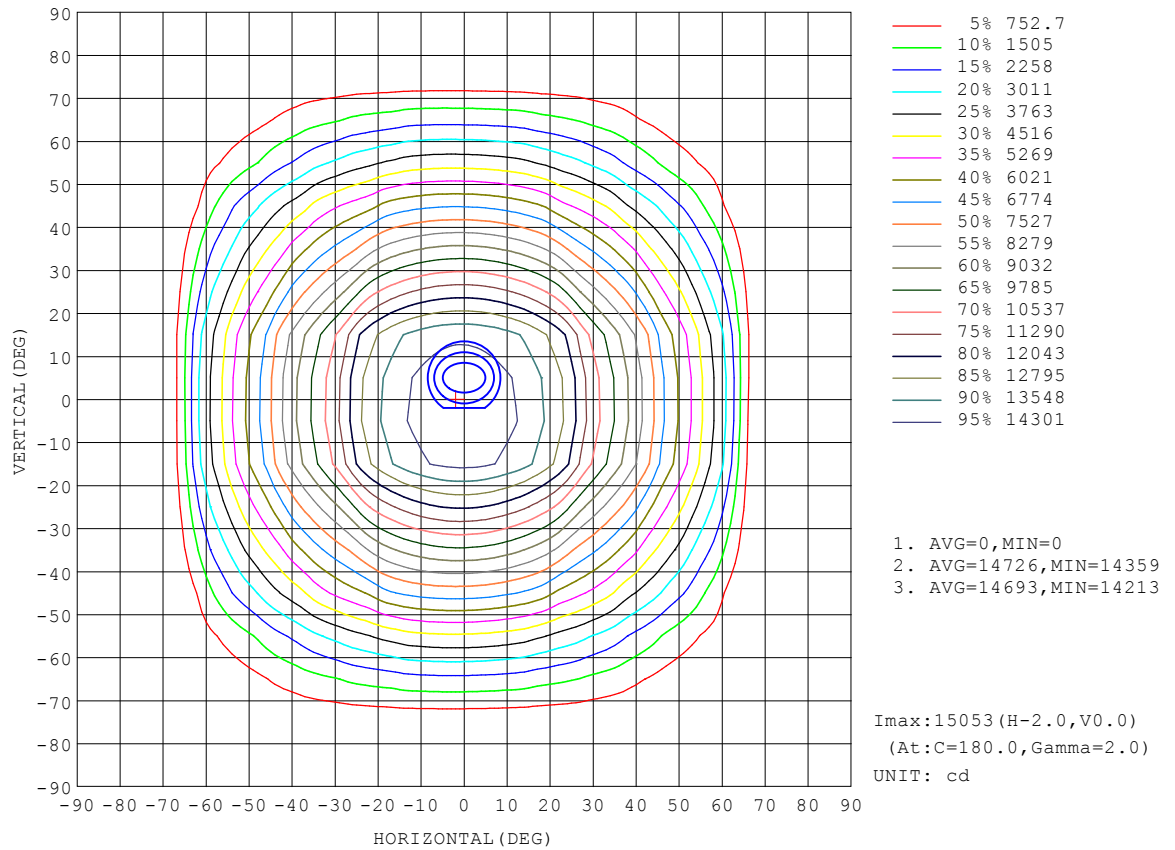
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	66	55	49	65	55	49	64	55	49	43
0.80	76	66	60	75	66	59	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:220.06V I:0.9159A P:196.65W PF:0.9756 Freq:59.98Hz Lamp Flux:28894.6x1 lm		
NAME: LED High Bay Light	TYPE:Flood Light	WEIGHT:N/A
SPEC.:200W	DIM.: 210*280mm	SERIAL No.:N/A
MFR.: Grin Industrial Co., Ltd.	SUR.:N/A	Shielding Angle:N/A

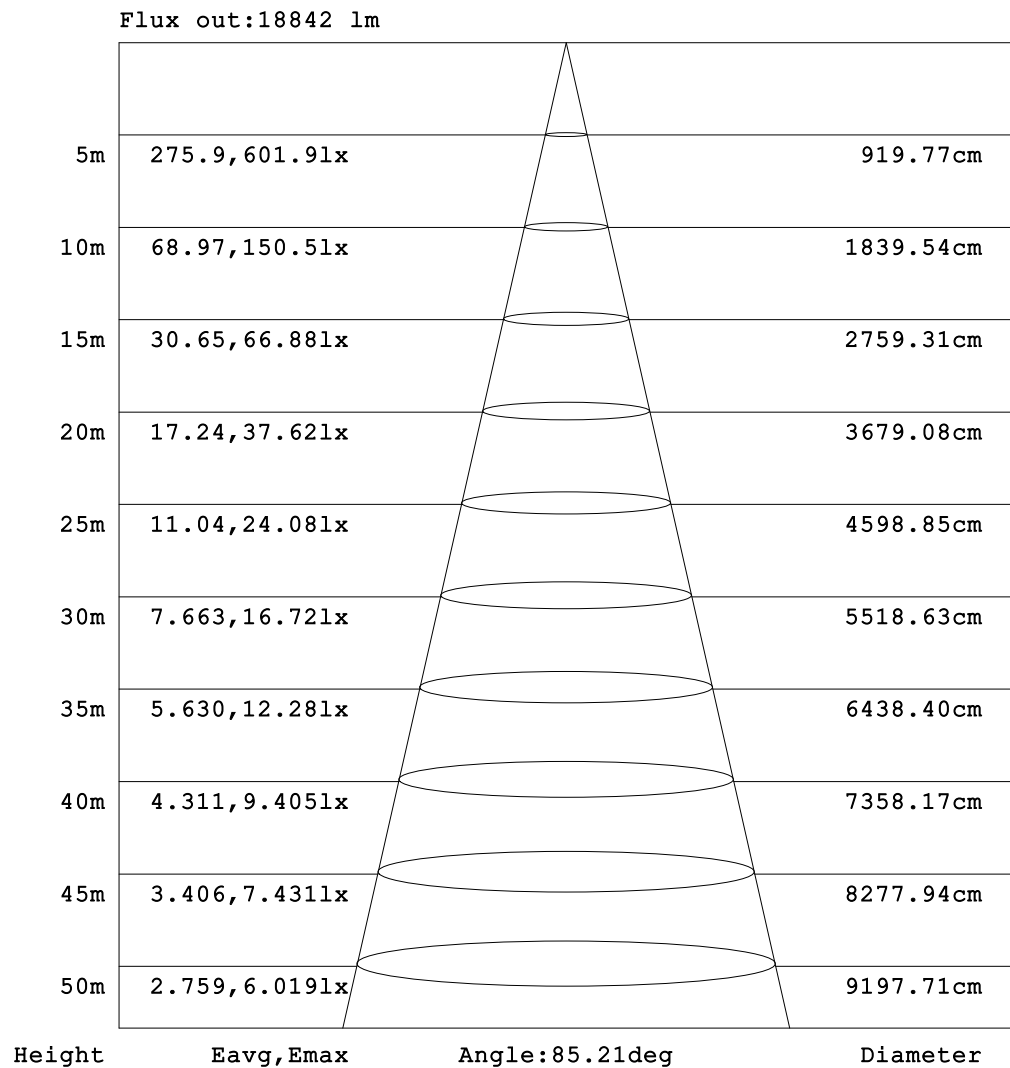


H(□) Range:-90 - 90DEG
H(□) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jessy
Test Date:2024-11-07

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:220.06V I:0.9159A P:196.65W PF:0.9756 Freq:59.98Hz Lamp Flux:28894.6x1 lm		
NAME: LED High Bay Light	TYPE:Flood Light	WEIGHT:N/A
SPEC.:200W	DIM.: 210*280mm	SERIAL No.:N/A
MFR.: Grin Industrial Co., Ltd.	SUR.:N/A	Shielding Angle:N/A



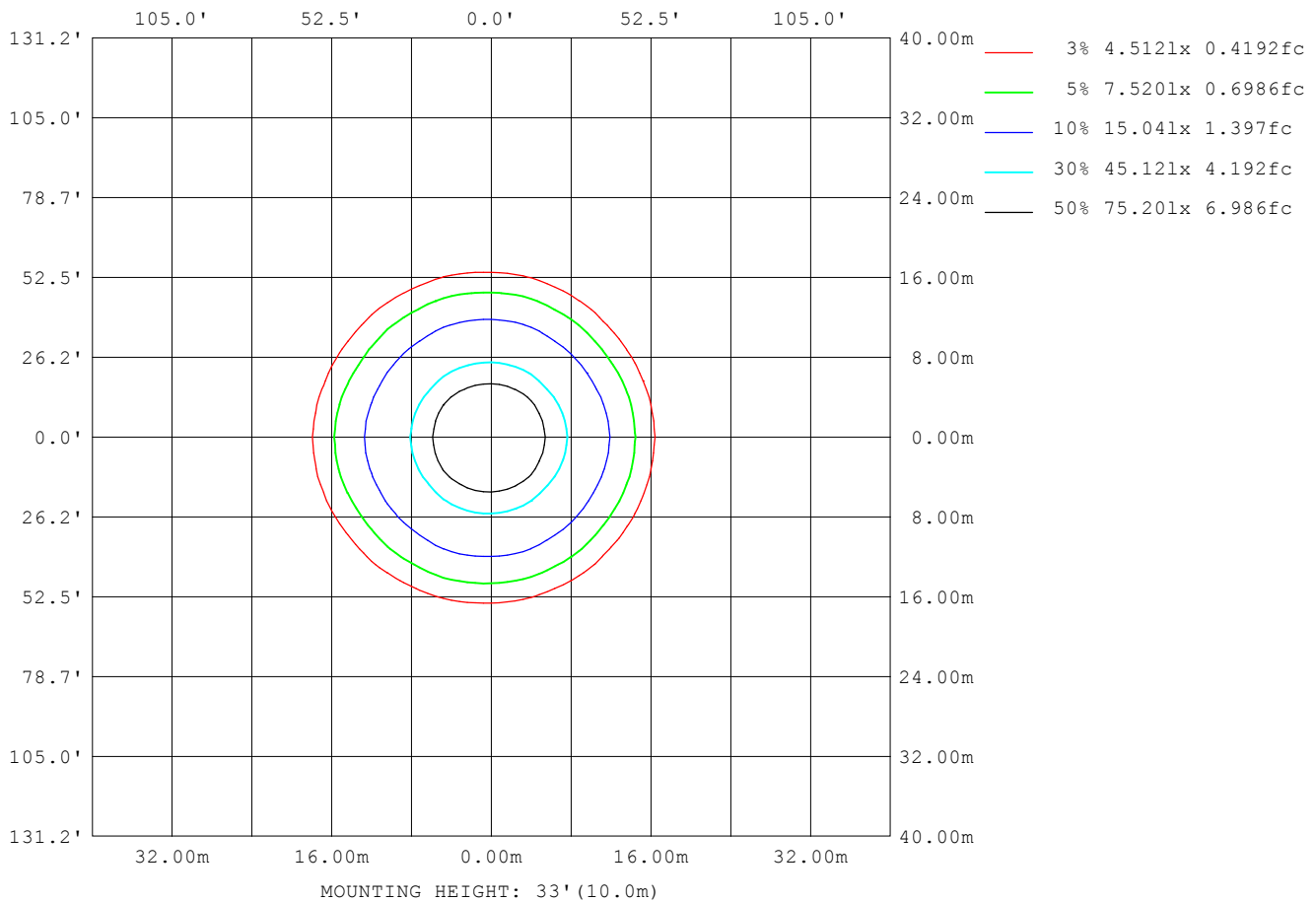
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:220.06V I:0.9159A P:196.65W PF:0.9756 Freq:59.98Hz Lamp Flux:28894.6x1 lm		
NAME: LED High Bay Light	TYPE:Flood Light	WEIGHT:N/A
SPEC.:200W	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:220.06V I:0.9159A P:196.65W PF:0.9756 Freq:59.98Hz Lamp Flux:28894.6x1 lm		
NAME: LED High Bay Light	TYPE:Flood Light	WEIGHT:N/A
SPEC.:200W	DIM.: 210*280mm	SERIAL No.:N/A
MFR.: Grin Industrial Co., Ltd.	SUR.:N/A	Shielding Angle:N/A

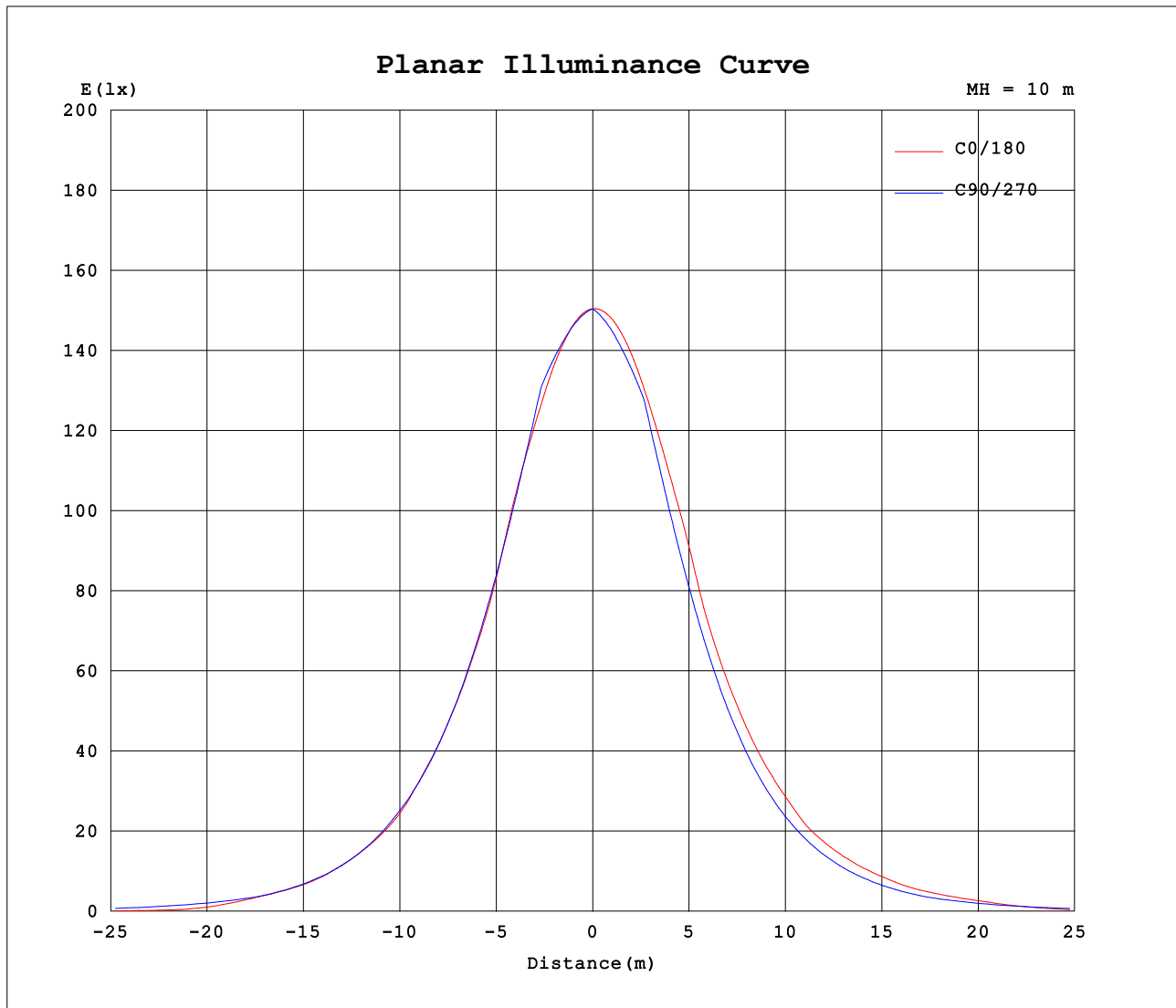
AvgL	cd/m2
L_0~180 (65) av	144418
L_0~180 (75) av	32389
L_0~180 (85) av	11496
L_90~270 (65) av	200439
L_90~270 (75) av	24729
L_90~270 (85) av	0
L_45 (65) av	188899
L_45 (75) av	76224
L_45 (85) av	0

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:
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