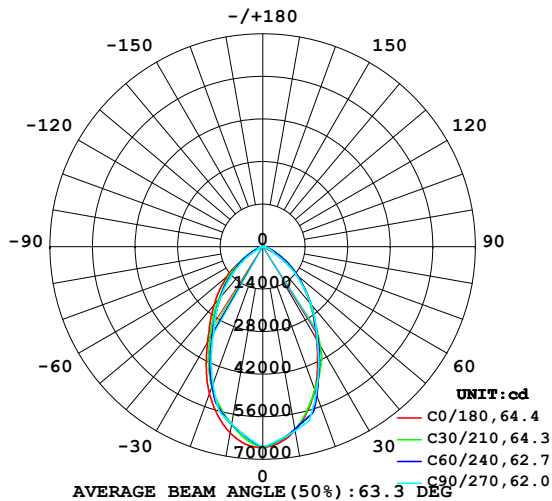


## LUMINAIRE PHOTOMETRIC TEST REPORT

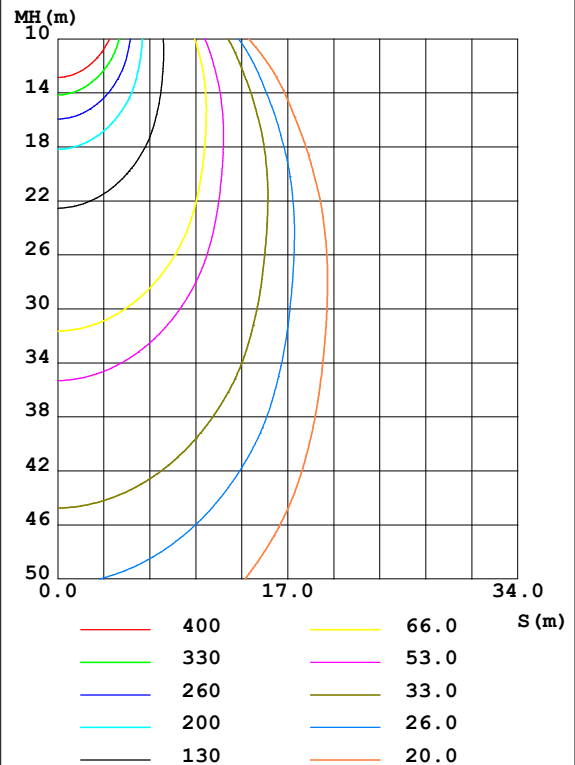
Test:U:118.46V I:5.0987A P:601.94W PF:0.9966 Freq:50.01Hz Lamp Flux:86626.6x1 lm		
NAME: LED High Bay Light	TYPE:Flood Light	WEIGHT:N/A
SPEC.:600W/5000K/60°	DIM.: 460*530mm	SERIAL No.:N/A
MFR.: Grin Industrial Co., Ltd.	SUR.:N/A	Shielding Angle:N/A

DATA OF LAMP		PHOTOMETRIC DATA Eff: 143.91 lm/W			
MODEL	GSM-90-U	I <sub>max</sub> (cd)	66107	S/MH(C0/180)	0.93
NOMINAL POWER(W)	600	LOR(%)	100.0	S/MH(C90/270)	0.87
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	86627	□ UP,DN(C0-180)	0.0,51.9
NOMINAL FLUX(lm)	86626.6	CIE CLASS	DIRECT	□ UP,DN(C180-360)	0.0,48.1
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	6138	6086	6150	6065	6220	5928	5931	5927	0- 10	5977	5977	6.9, 6.9
20	5020	5276	5142	5166	5141	4930	4804	4977	10- 20	15666	21643	25, 25
30	3545	3712	3586	3677	3644	3466	3228	3448	20- 30	19540	41183	47.5, 47.5
40	2435	2366	2467	2351	2495	2178	2160	2137	30- 40	18063	59246	68.4, 68.4
50	1496	1490	1417	1495	1547	1331	1170	1296	40- 50	14276	73522	84.9, 84.9
60	397.7	752.9	434.3	739.0	404.5	616.5	259.2	604.7	50- 60	8887	82408	95.1, 95.1
70	109.1	196.2	183.4	168.0	112.9	122.6	110.5	132.4	60- 70	3346	85754	99, 99
80	25.76	28.95	0	24.16	26.46	15.33	0	17.87	70- 80	830.6	86585	100, 100
90	0.7828	0	0	0	0.8516	0	0	0	80- 90	42.03	86627	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): 66979 lm

%lum = 77.3%

%lamp = 77.3%

Conical surface Flux(120deg): 82408 lm

%lum = 95.1%

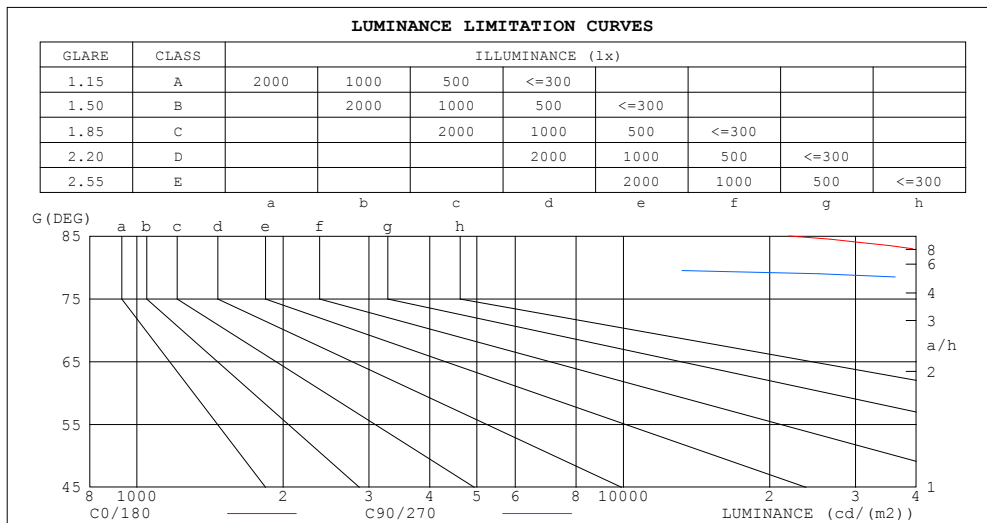
%lamp = 95.1%

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:118.46V I:5.0987A P:601.94W PF:0.9966 Freq:50.01Hz Lamp Flux:86626.6x1 lm		
NAME: LED High Bay Light	TYPE:Flood Light	WEIGHT:N/A
SPEC.:600W/5000K/60°	DIM.: 460*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	21889	0
80	61816	0
75	96464	93029
70	132970	223380
65	168645	304120
60	331390	361945
55	717717	671842
50	970010	918335
45	1140872	1123673

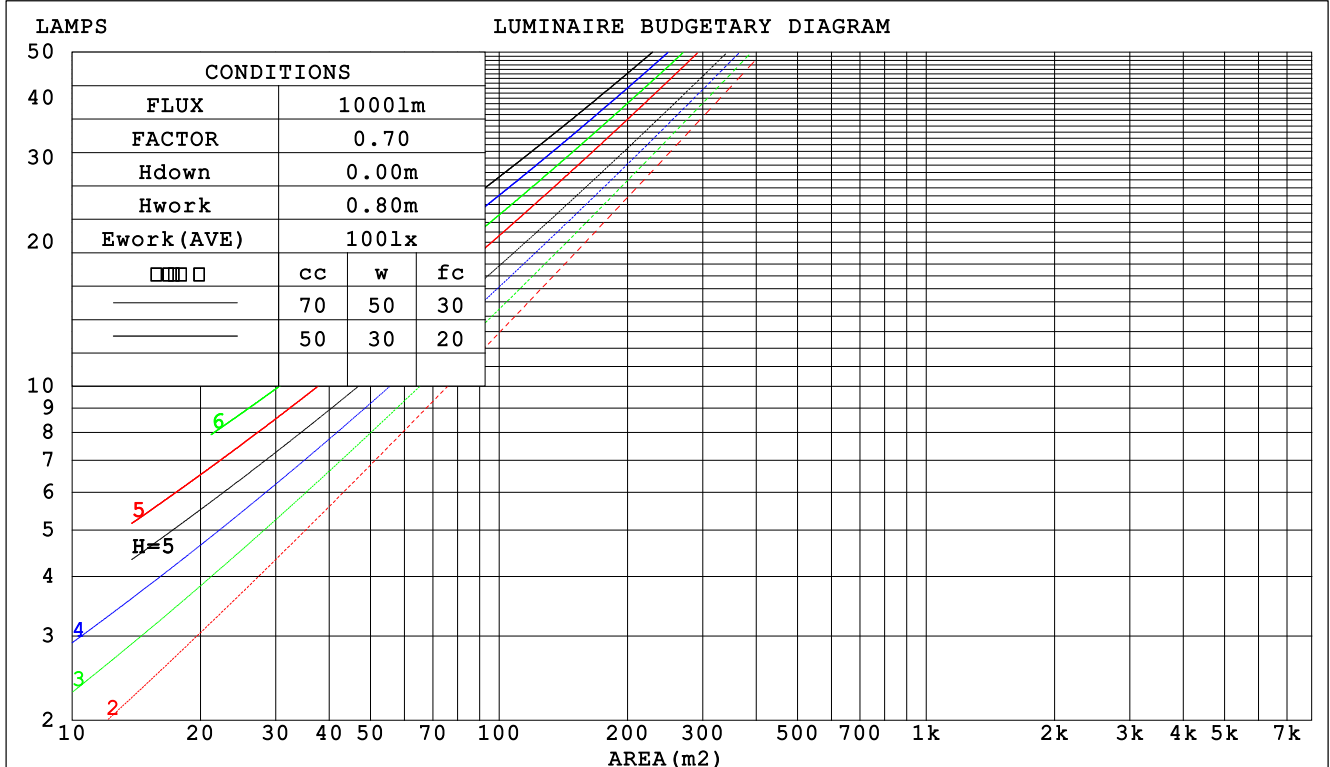
H(□) Range:-90 - 90DEG  
H(□) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Jessy  
Test Date:2024-11-13

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:118.46V I:5.0987A P:601.94W PF:0.9966 Freq:50.01Hz Lamp Flux:86626.6x1 lm		
NAME: LED High Bay Light	TYPE:Flood Light	WEIGHT:N/A
SPEC.:600W/5000K/60°	DIM.: 460*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															Coefficients of Utilization(CU)														
0.0	1.19	1.19	1.19	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00														
1.0	1.09	1.05	1.03	1.06	1.04	1.01	1.02	1.00	.98	.98	.97	.95	.95	.94	.92	.90														
2.0	.98	.93	.89	.97	.92	.88	.93	.89	.86	.90	.87	.84	.87	.85	.82	.81														
3.0	.89	.83	.78	.88	.82	.78	.85	.80	.76	.83	.78	.75	.80	.77	.74	.72														
4.0	.82	.75	.69	.80	.74	.69	.78	.72	.68	.76	.71	.67	.74	.70	.66	.65														
5.0	.75	.67	.62	.74	.67	.62	.72	.66	.61	.70	.65	.61	.68	.64	.60	.58														
6.0	.69	.61	.56	.68	.61	.56	.66	.60	.55	.65	.59	.55	.63	.58	.55	.53														
7.0	.63	.56	.51	.63	.56	.51	.61	.55	.50	.60	.54	.50	.59	.54	.50	.48														
8.0	.59	.52	.47	.58	.51	.46	.57	.51	.46	.56	.50	.46	.55	.50	.46	.44														
9.0	.55	.48	.43	.54	.47	.43	.53	.47	.43	.52	.46	.42	.51	.46	.42	.41														
10.0	.51	.44	.40	.51	.44	.40	.50	.44	.39	.49	.43	.39	.48	.43	.39	.38														



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:118.46V I:5.0987A P:601.94W PF:0.9966 Freq:50.01Hz Lamp Flux:86626.6x1 lm		
NAME: LED High Bay Light	TYPE:Flood Light	WEIGHT:N/A
SPEC.:600W/5000K/60°	DIM.: 460*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	.220	.125	.040	.213	.122	.039	.200	.115	.037	.189	.109	.035	.178	.103	.033		
2.0	.215	.118	.036	.209	.115	.035	.198	.110	.034	.188	.105	.033	.179	.101	.032		
3.0	.205	.109	.033	.200	.107	.032	.191	.103	.031	.182	.100	.031	.174	.096	.030		
4.0	.195	.101	.030	.190	.100	.029	.182	.097	.029	.174	.094	.028	.167	.091	.028		
5.0	.184	.094	.027	.181	.093	.027	.173	.090	.027	.166	.088	.026	.160	.085	.026		
6.0	.174	.087	.025	.171	.086	.025	.164	.084	.025	.158	.082	.024	.153	.080	.024		
7.0	.165	.082	.023	.162	.081	.023	.156	.079	.023	.151	.077	.022	.146	.076	.022		
8.0	.156	.076	.021	.154	.076	.021	.148	.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	.089	.068	.051	.052	.040	.030	.017	.013	.010	
4.0	.143	.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	.031	.020	.015	.010	.006	
6.0	.129	.080	.045	.111	.069	.039	.076	.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:118.46V I:5.0987A P:601.94W PF:0.9966 Freq:50.01Hz Lamp Flux:86626.6x1 lm										
NAME: LED High Bay Light					TYPE:Flood Light			WEIGHT:N/A		
SPEC.:600W/5000K/60°					DIM.: 460*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	19.5	20.7	19.7	20.9	21.0	19.4	20.6	19.7	20.8	21.0
3H	19.4	20.5	19.7	20.7	21.0	19.7	20.8	19.9	21.0	21.2
4H	19.4	20.4	19.7	20.6	20.9	19.6	20.7	19.9	20.9	21.2
6H	19.3	20.3	19.6	20.5	20.8	19.5	20.5	19.9	20.8	21.0
8H	19.2	20.2	19.6	20.4	20.7	19.5	20.4	19.8	20.7	21.0
12H	19.2	20.1	19.5	20.4	20.7	19.4	20.3	19.8	20.6	20.9
4H 2H	19.6	20.7	19.9	20.9	21.2	19.6	20.7	19.9	20.9	21.1
3H	19.7	20.6	20.0	20.8	21.1	20.0	20.9	20.3	21.1	21.4
4H	19.6	20.4	20.0	20.8	21.1	19.9	20.8	20.3	21.1	21.4
6H	19.6	20.3	19.9	20.6	21.0	19.9	20.6	20.3	20.9	21.3
8H	19.5	20.2	19.9	20.5	20.9	19.8	20.5	20.2	20.8	21.2
12H	19.5	20.1	19.9	20.5	20.9	19.8	20.4	20.2	20.8	21.1
8H 4H	19.6	20.2	20.0	20.6	21.0	19.9	20.5	20.3	20.9	21.3
6H	19.5	20.1	19.9	20.5	20.9	19.8	20.3	20.2	20.7	21.1
8H	19.5	20.0	19.9	20.4	20.8	19.7	20.2	20.2	20.6	21.1
12H	19.4	19.8	19.9	20.3	20.8	19.7	20.1	20.2	20.5	21.0
12H 4H	19.5	20.1	19.9	20.5	20.9	19.8	20.4	20.2	20.8	21.2
6H	19.5	19.9	19.9	20.4	20.8	19.7	20.2	20.2	20.6	21.1
8H	19.4	19.8	19.9	20.3	20.8	19.7	20.1	20.2	20.5	21.0
Variations with the observer position at spacings:										
S = 1.0H	+ 0.9 / - 1.5					+ 0.9 / - 1.4				
1.5H	+ 0.5 / - 0.8					+ 0.3 / - 0.8				
2.0H	+ 1.9 / - 5.0					+ 1.9 / - 4.5				

CIE Pub.117, 86627 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 15.5)  
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:118.46V I:5.0987A P:601.94W PF:0.9966 Freq:50.01Hz Lamp Flux:86626.6x1 lm		
NAME: LED High Bay Light	TYPE:Flood Light	WEIGHT:N/A
SPEC.:600W/5000K/60°	DIM.: 460*530mm	SERIAL No.:N/A
MFR.: Grin Industrial Co., Ltd.	SUR.:N/A	Shielding Angle:N/A

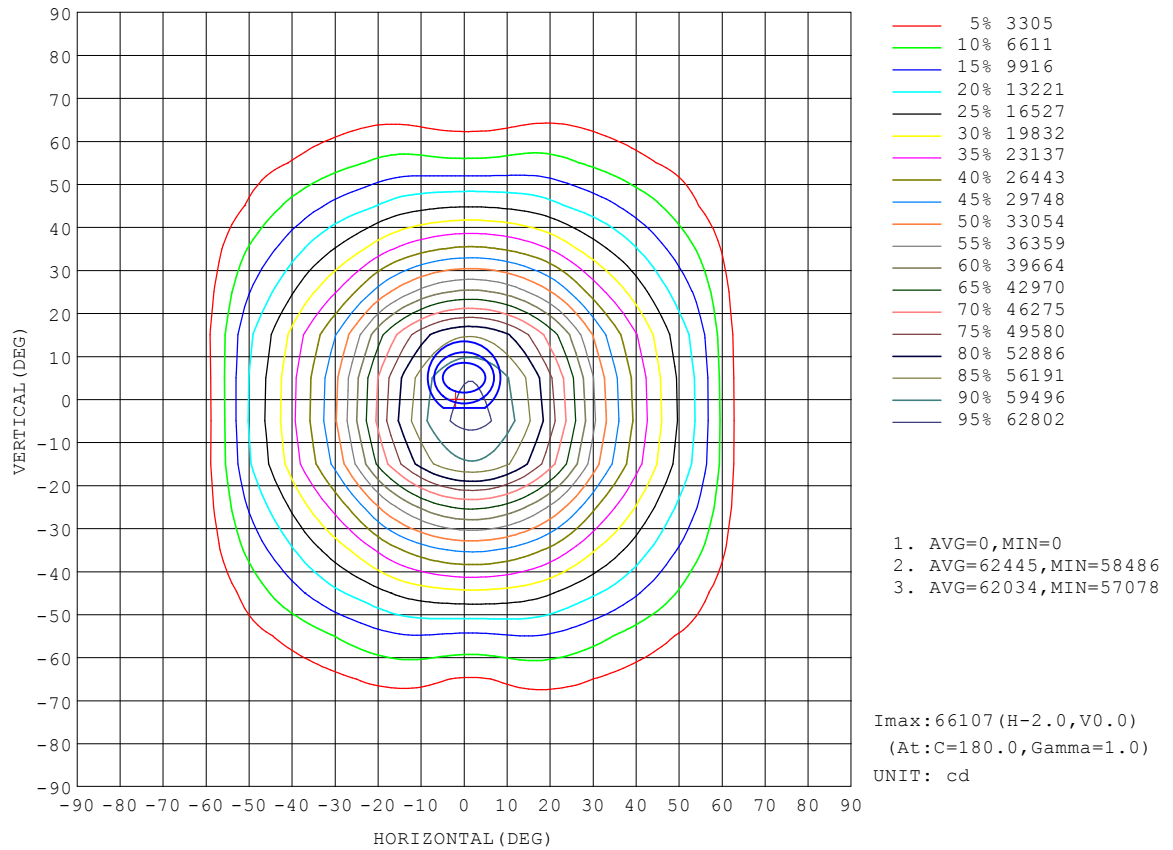
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	71	62	57	71	62	56	70	61	56	51
0.80	81	72	67	80	72	66	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	87	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	99	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:118.46V I:5.0987A P:601.94W PF:0.9966 Freq:50.01Hz Lamp Flux:86626.6x1 lm		
NAME: LED High Bay Light	TYPE:Flood Light	WEIGHT:N/A
SPEC.:600W/5000K/60°	DIM.: 460*530mm	SERIAL No.:N/A
MFR.: Grin Industrial Co., Ltd.	SUR.:N/A	Shielding Angle:N/A



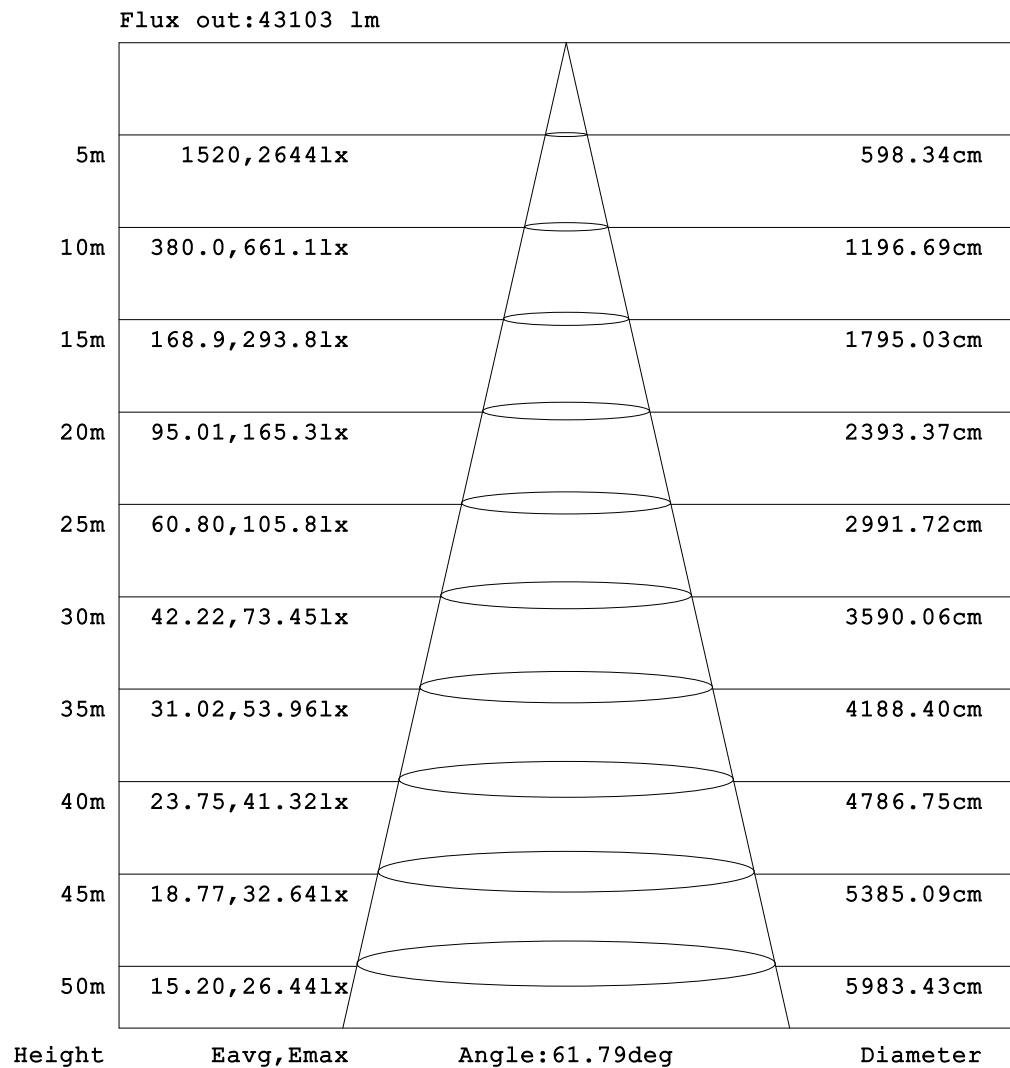
H(□) Range:-90 - 90DEG  
H(□) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Jessy  
Test Date:2024-11-13

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:118.46V I:5.0987A P:601.94W PF:0.9966 Freq:50.01Hz Lamp Flux:86626.6x1 lm		
NAME: LED High Bay Light	TYPE:Flood Light	WEIGHT:N/A
SPEC.:600W/5000K/60°	DIM.: 460*530mm	SERIAL No.:N/A
MFR.: Grin Industrial Co., Ltd.	SUR.:N/A	Shielding Angle:N/A



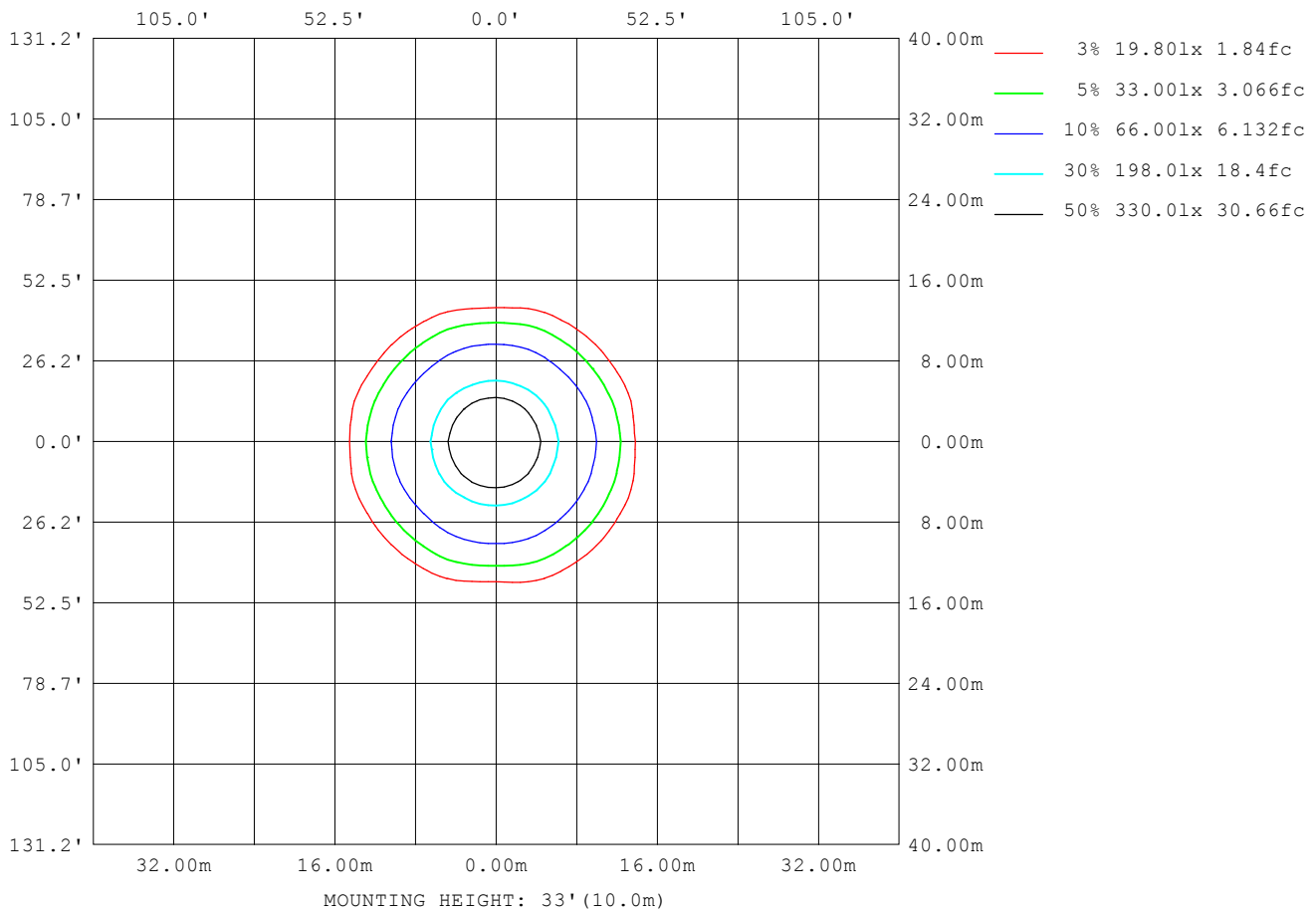
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:118.46V I:5.0987A P:601.94W PF:0.9966 Freq:50.01Hz Lamp Flux:86626.6x1 lm		
NAME: LED High Bay Light	TYPE:Flood Light	WEIGHT:N/A
SPEC.:600W/5000K/60°	DIM.: 460*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:118.46V I:5.0987A P:601.94W PF:0.9966 Freq:50.01Hz Lamp Flux:86626.6x1 lm		
NAME: LED High Bay Light	TYPE:Flood Light	WEIGHT:N/A
SPEC.:600W/5000K/60°	DIM.: 460*530mm	SERIAL No.:N/A
MFR.: Grin Industrial Co., Ltd.	SUR.:N/A	Shielding Angle:N/A

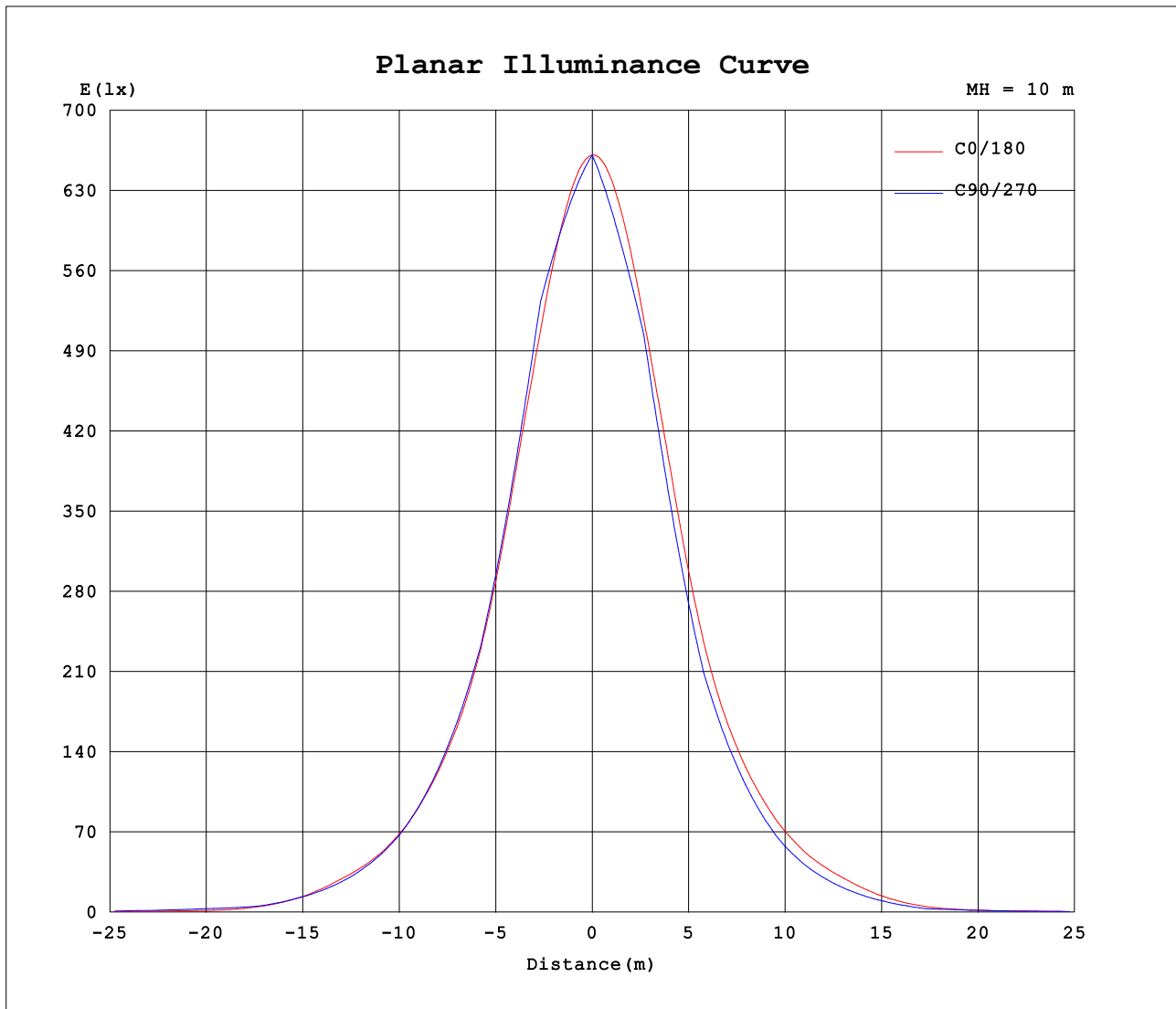
AvgL	cd/m2
L_0~180 (65) av	171496
L_0~180 (75) av	97662
L_0~180 (85) av	25267
L_90~270 (65) av	242677
L_90~270 (75) av	75578
L_90~270 (85) av	0
L_45 (65) av	353123
L_45 (75) av	130712
L_45 (85) av	0

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:

```
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:
```