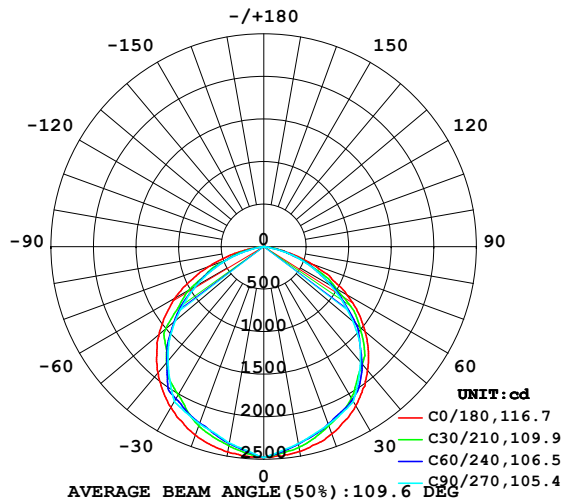


LUMINAIRE PHOTOMETRIC TEST REPORT

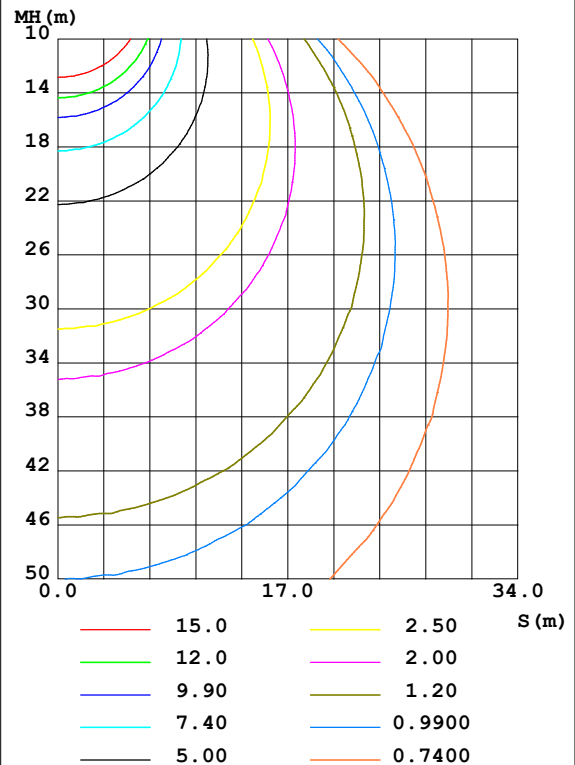
Test:U:120.12V I:0.3432A P:41.100W PF:0.9969 Freq:59.98Hz Lamp Flux:6481.23x1 lm		
NAME: LED Explosion-proof Light	TYPE:Flood Light	WEIGHT:N/A
SPEC.:40W	DIM.: 520*90mm	SERIAL No.:N/A
MFR.: Grin Industrial Co., Ltd.	SUR.:N/A	Shielding Angle:N/A

DATA OF LAMP		PHOTOMETRIC DATA Eff: 157.70 lm/W			
MODEL	GHLV-07-U	I _{max} (cd)	2481	S/MH(C0/180)	1.31
NOMINAL POWER(W)	40	LOR(%)	100.0	S/MH(C90/270)	1.25
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	6481.2	□ UP,DN(C0-180)	0.0,50.1
NOMINAL FLUX(lm)	6481.23	CIE CLASS	DIRECT	□ UP,DN(C180-360)	0.0,49.9
LAMPS INSIDE	1	□ up(%)	0.0	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	120	□ down(%)	100.0	CIBSE SHR MAX	1.35

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:2025-01-14

V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:7.228m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

°	C0	C45	C90	C135	C180	C225	C270	C315	°	□ zone	□ total	%lum, lamp
10	2443	2374	2350	2367	2451	2360	2341	2367	0- 10	230.2	230.2	3.55,3.55
20	2340	2231	2224	2210	2359	2198	2215	2223	10- 20	652.7	882.9	13.6,13.6
30	2161	2054	2104	2048	2182	2043	2103	2046	20- 30	997.6	1881	29,29
40	1898	1830	1768	1845	1934	1849	1754	1830	30- 40	1219	3100	47.8,47.8
50	1554	1406	1369	1444	1606	1426	1358	1405	40- 50	1251	4350	67.1,67.1
60	1129	943.7	907.2	977.5	1206	961.5	916.4	950.5	50- 60	1076	5426	83.7,83.7
70	599.4	491.7	484.8	501.6	689.7	494.4	466.7	502.7	60- 70	730.4	6156	95,95
80	119.0	109.0	0	110.9	187.8	87.78	0	99.63	70- 80	305.2	6461	99.7,99.7
90	9.079	0	0	0	10.69	0	0	0	80- 90	19.92	6481	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): 3733.3 lm

%lum = 57.6%

%lamp = 57.6%

Conical surface Flux(120deg): 5425.7 lm

%lum = 83.7%

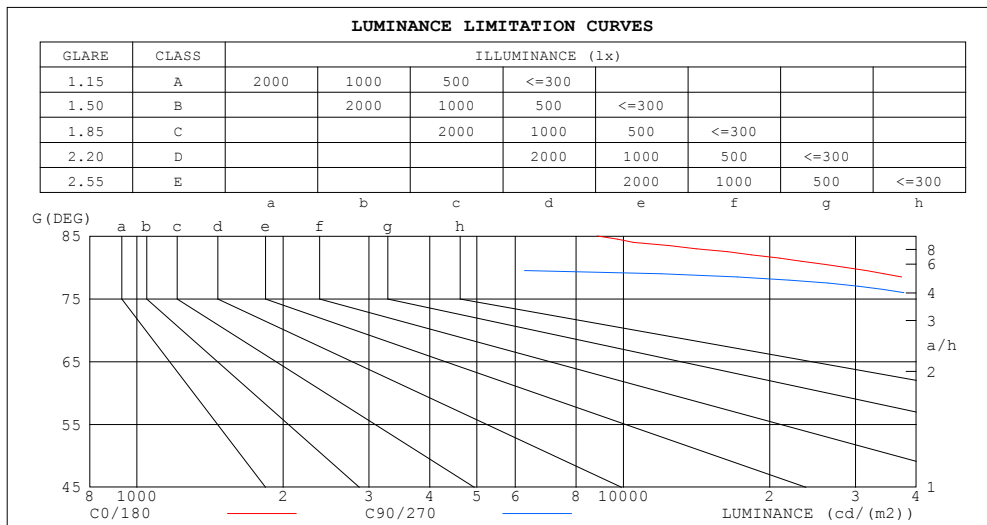
%lamp = 83.7%

H(□) Range:-90 - 90DEG
H(□) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jessy
Test Date:2025-01-14

V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:7.228m [K=1.0000]
Remarks:

LUMINANCE LIMITATION CURVES

Test:U:120.12V I:0.3432A P:41.100W PF:0.9969 Freq:59.98Hz Lamp Flux:6481.23x1 lm		
NAME: LED Explosion-proof Light	TYPE:Flood Light	WEIGHT:N/A
SPEC.:40W	DIM.: 520*90mm	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	8844	0
80	28555	0
75	56556	44098
70	73022	59057
65	85897	68639
60	94049	75596
55	98545	82676
50	100750	88773
45	102638	94260

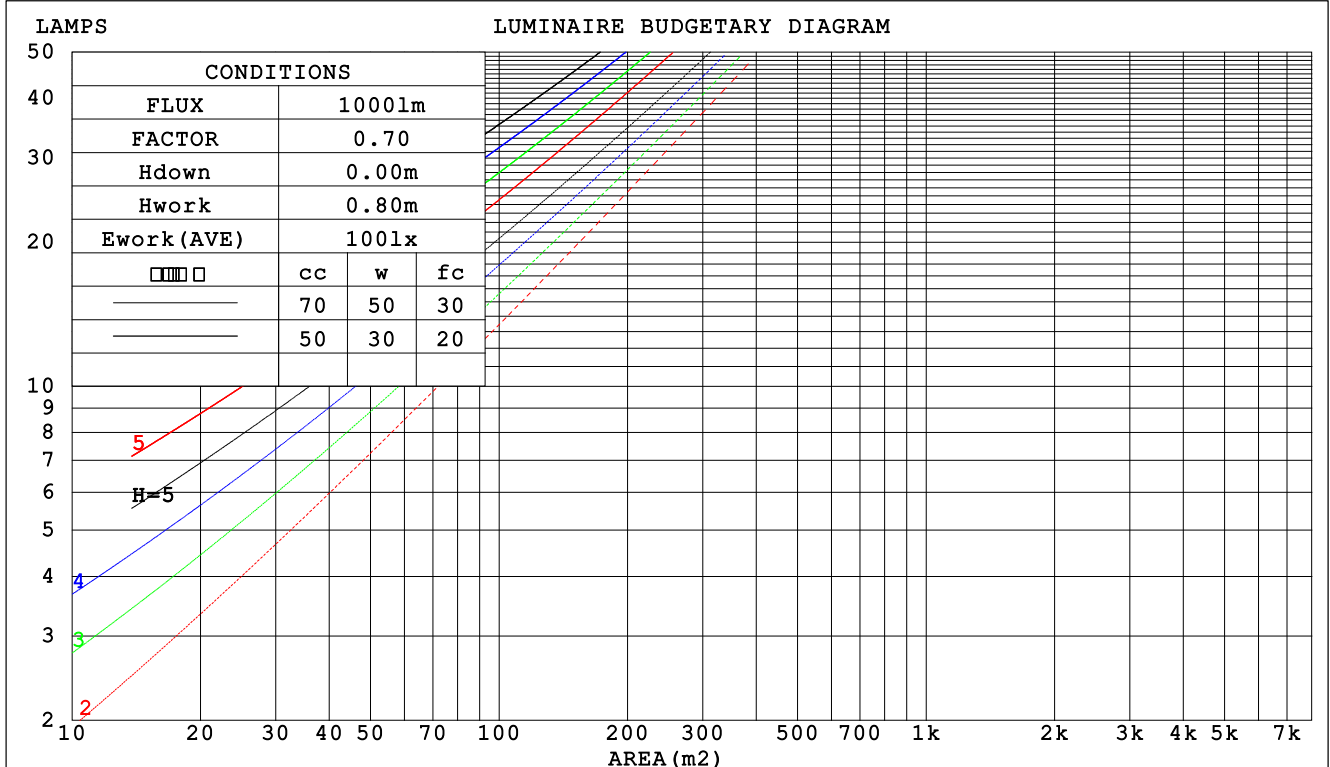
H(□) Range:-90 - 90DEG
H(□) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jessy
Test Date:2025-01-14

V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:7.228m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.12V I:0.3432A P:41.100W PF:0.9969 Freq:59.98Hz Lamp Flux:6481.23x1 lm		
NAME: LED Explosion-proof Light	TYPE:Flood Light	WEIGHT:N/A
SPEC.:40W	DIM.: 520*90mm	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:2025-01-14

V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:7.228m [K=1.0000]
Remarks:

WEC AND CCEC

Test:U:120.12V I:0.3432A P:41.100W PF:0.9969 Freq:59.98Hz Lamp Flux:6481.23x1 lm		
NAME: LED Explosion-proof Light	TYPE:Flood Light	WEIGHT:N/A
SPEC.:40W	DIM.: 520*90mm	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	.279	.159	.050	.272	.155	.049	.259	.149	.047	.247	.143	.046	.236	.137	.044		
2.0	.271	.149	.046	.265	.146	.045	.254	.141	.044	.243	.136	.043	.233	.132	.042		
3.0	.256	.136	.041	.250	.134	.040	.240	.130	.040	.231	.126	.039	.222	.123	.038		
4.0	.239	.124	.036	.234	.122	.036	.225	.119	.036	.216	.116	.035	.209	.113	.035		
5.0	.222	.113	.033	.218	.112	.033	.210	.109	.032	.203	.107	.032	.196	.105	.031		
6.0	.207	.104	.030	.204	.103	.030	.196	.101	.029	.190	.099	.029	.184	.097	.029		
7.0	.194	.096	.027	.191	.095	.027	.184	.093	.027	.178	.091	.027	.173	.090	.026		
8.0	.182	.089	.025	.179	.088	.025	.173	.086	.025	.168	.085	.024	.163	.083	.024		
9.0	.171	.083	.023	.168	.082	.023	.163	.081	.023	.158	.079	.023	.154	.078	.023		
10.0	.161	.077	.021	.159	.077	.021	.154	.075	.021	.149	.074	.021	.145	.073	.021		

□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	.178	.156	.137	.152	.134	.118	.104	.092	.081	.060	.053	.047	.019	.017	.015	
2.0	.170	.132	.100	.145	.114	.087	.100	.079	.061	.057	.046	.036	.018	.015	.012	
3.0	.162	.114	.076	.139	.099	.066	.095	.068	.046	.055	.040	.027	.018	.013	.009	
4.0	.154	.101	.060	.132	.087	.052	.091	.061	.037	.053	.036	.022	.017	.012	.007	
5.0	.147	.090	.048	.126	.078	.042	.087	.055	.030	.050	.032	.018	.016	.010	.006	
6.0	.140	.082	.040	.120	.071	.035	.083	.050	.025	.048	.029	.015	.016	.010	.005	
7.0	.134	.075	.034	.115	.065	.030	.079	.046	.021	.046	.027	.012	.015	.009	.004	
8.0	.127	.069	.029	.110	.060	.025	.076	.042	.018	.044	.025	.011	.014	.008	.004	
9.0	.121	.064	.026	.105	.056	.022	.072	.039	.016	.042	.023	.009	.014	.008	.003	
10.0	.116	.060	.023	.100	.052	.020	.069	.037	.014	.040	.022	.008	.013	.007	.003	

H(□) Range:-90 - 90DEG
H(□) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jessy
Test Date:2025-01-14

V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:7.228m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

Test:U:120.12V I:0.3432A P:41.100W PF:0.9969 Freq:59.98Hz Lamp Flux:6481.23x1 lm										
NAME: LED Explosion-proof Light					TYPE:Flood Light			WEIGHT:N/A		
SPEC.:40W					DIM.: 520*90mm			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	22.3	23.7	22.5	23.9	24.1	21.6	23.1	21.9	23.3	23.5
3H	23.5	24.8	23.7	25.0	25.3	22.7	24.1	23.0	24.3	24.5
4H	23.8	25.1	24.1	25.3	25.6	23.0	24.3	23.3	24.5	24.8
6H	23.9	25.1	24.2	25.3	25.6	23.0	24.2	23.3	24.5	24.7
8H	23.8	25.0	24.2	25.3	25.6	22.9	24.1	23.3	24.4	24.7
12H	23.8	24.9	24.1	25.2	25.5	22.9	24.0	23.2	24.3	24.6
4H 2H	22.7	23.9	23.0	24.2	24.4	22.2	23.4	22.5	23.7	23.9
3H	24.0	25.1	24.3	25.4	25.7	23.4	24.5	23.7	24.8	25.1
4H	24.4	25.4	24.7	25.7	26.0	23.8	24.8	24.1	25.1	25.4
6H	24.5	25.4	24.9	25.8	26.1	23.8	24.7	24.2	25.0	25.4
8H	24.5	25.3	24.9	25.7	26.1	23.7	24.6	24.1	24.9	25.3
12H	24.5	25.2	24.9	25.6	26.0	23.7	24.4	24.1	24.8	25.2
8H 4H	24.4	25.3	24.9	25.6	26.0	23.9	24.7	24.3	25.1	25.5
6H	24.7	25.3	25.1	25.8	26.2	23.9	24.6	24.4	25.0	25.4
8H	24.7	25.3	25.1	25.7	26.2	23.9	24.5	24.3	24.9	25.4
12H	24.7	25.2	25.2	25.6	26.1	23.8	24.4	24.3	24.8	25.3
12H 4H	24.4	25.2	24.8	25.6	26.0	23.9	24.6	24.3	25.0	25.4
6H	24.6	25.2	25.1	25.7	26.1	23.9	24.5	24.4	24.9	25.4
8H	24.7	25.2	25.1	25.6	26.1	23.9	24.4	24.3	24.8	25.3
Variations with the observer position at spacings:										
S = 1.0H	+ 0.4 / - 0.2					+ 0.3 / - 0.3				
1.5H	+ 0.4 / - 0.4					+ 0.2 / - 0.4				
2.0H	+ 0.3 / - 0.6					+ 0.4 / - 0.5				

CIE Pub.117, 6481 lm Total Lamp Luminous Flux Correct ($8\log(F/F_0) = 6.5$)
Area: 0.024 m²

H(□) Range:-90 - 90DEG
H(□) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jessy
Test Date:2025-01-14

V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:7.228m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:120.12V I:0.3432A P:41.100W PF:0.9969 Freq:59.98Hz Lamp Flux:6481.23x1 lm		
NAME: LED Explosion-proof Light	TYPE:Flood Light	WEIGHT:N/A
SPEC.:40W	DIM.: 520*90mm	SERIAL No.:N/A
MFR.: Grin Industrial Co., Ltd.	SUR.:N/A	Shielding Angle:N/A

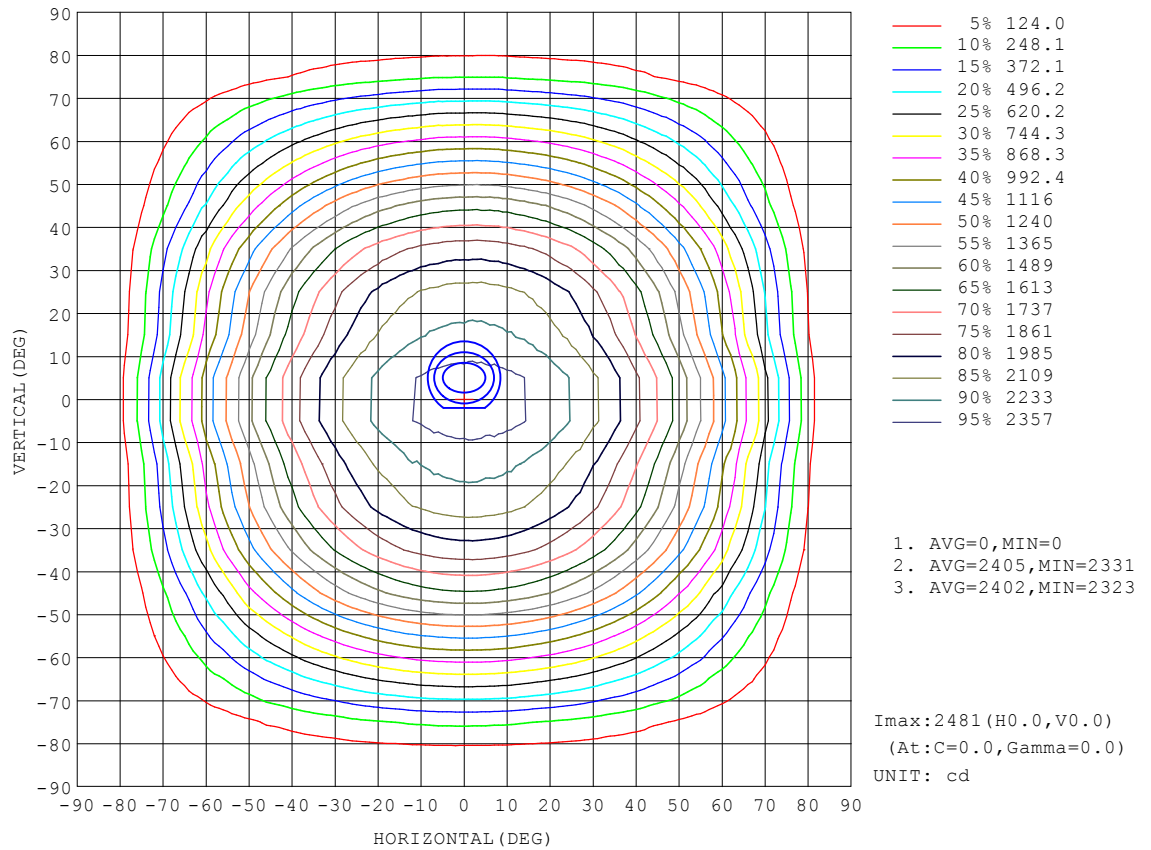
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	59	48	41	58	47	41	57	47	41	34
0.80	69	58	51	68	58	51	67	57	51	44
1.00	78	67	60	77	67	60	75	68	60	53
1.25	85	75	69	84	75	68	81	73	67	60
1.50	90	81	74	89	80	74	86	78	73	66
2.00	97	89	83	95	88	82	92	86	81	73
2.50	101	93	88	99	92	87	95	89	85	77
3.00	104	98	93	102	96	91	98	93	89	81
4.00	108	102	98	105	101	97	101	97	94	86
5.00	110	105	102	107	104	100	103	100	97	88
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:2025-01-14

V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:7.228m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

Test:U:120.12V I:0.3432A P:41.100W PF:0.9969 Freq:59.98Hz Lamp Flux:6481.23x1 lm		
NAME: LED Explosion-proof Light	TYPE:Flood Light	WEIGHT:N/A
SPEC.:40W	DIM.: 520*90mm	SERIAL No.:N/A
MFR.: Grin Industrial Co., Ltd.	SUR.:N/A	Shielding Angle:N/A

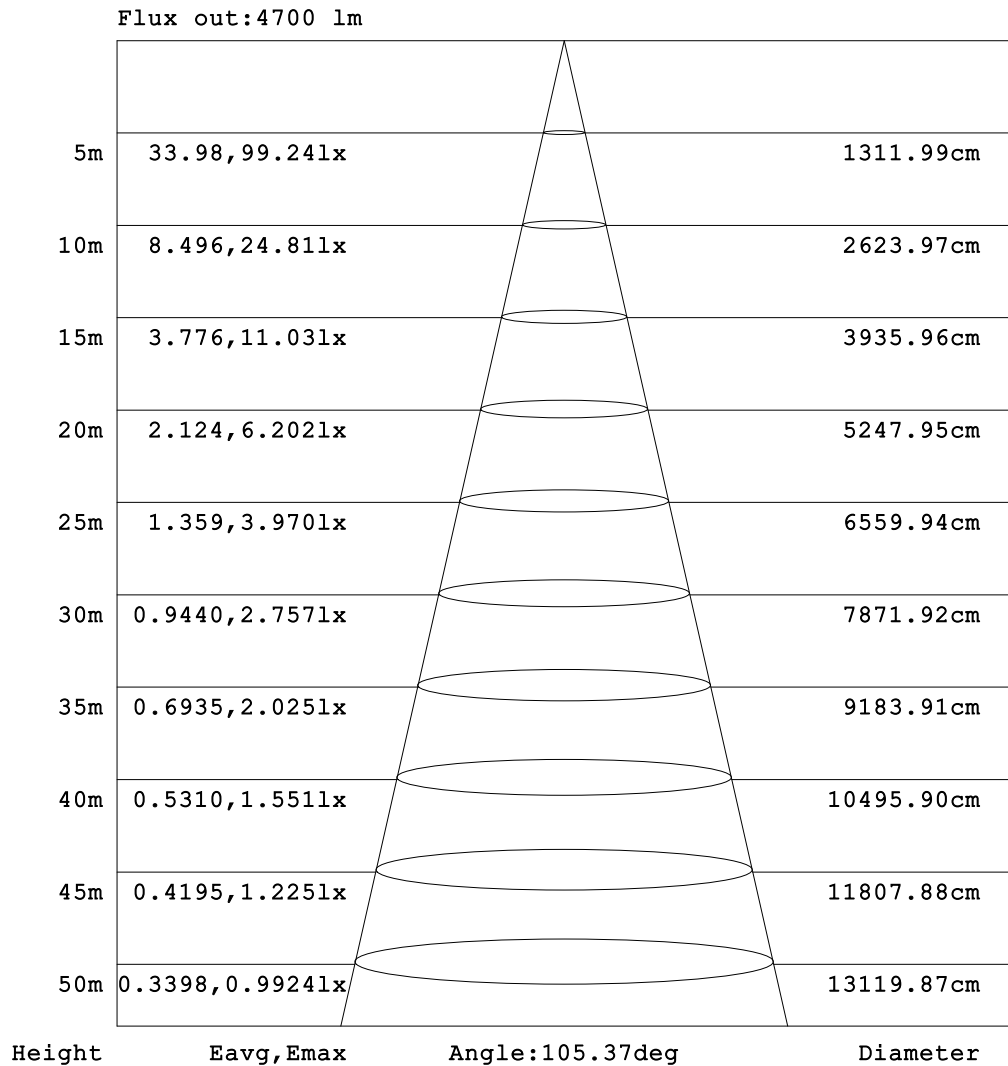


H(□) Range:-90 - 90DEG
H(□) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jessy
Test Date:2025-01-14

V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:7.228m [K=1.0000]
Remarks:

AAI Figure

Test:U:120.12V I:0.3432A P:41.100W PF:0.9969 Freq:59.98Hz Lamp Flux:6481.23x1 lm		
NAME: LED Explosion-proof Light	TYPE:Flood Light	WEIGHT:N/A
SPEC.:40W	DIM.: 520*90mm	SERIAL No.:N/A
MFR.: Grin Industrial Co., Ltd.	SUR.:N/A	Shielding Angle:N/A



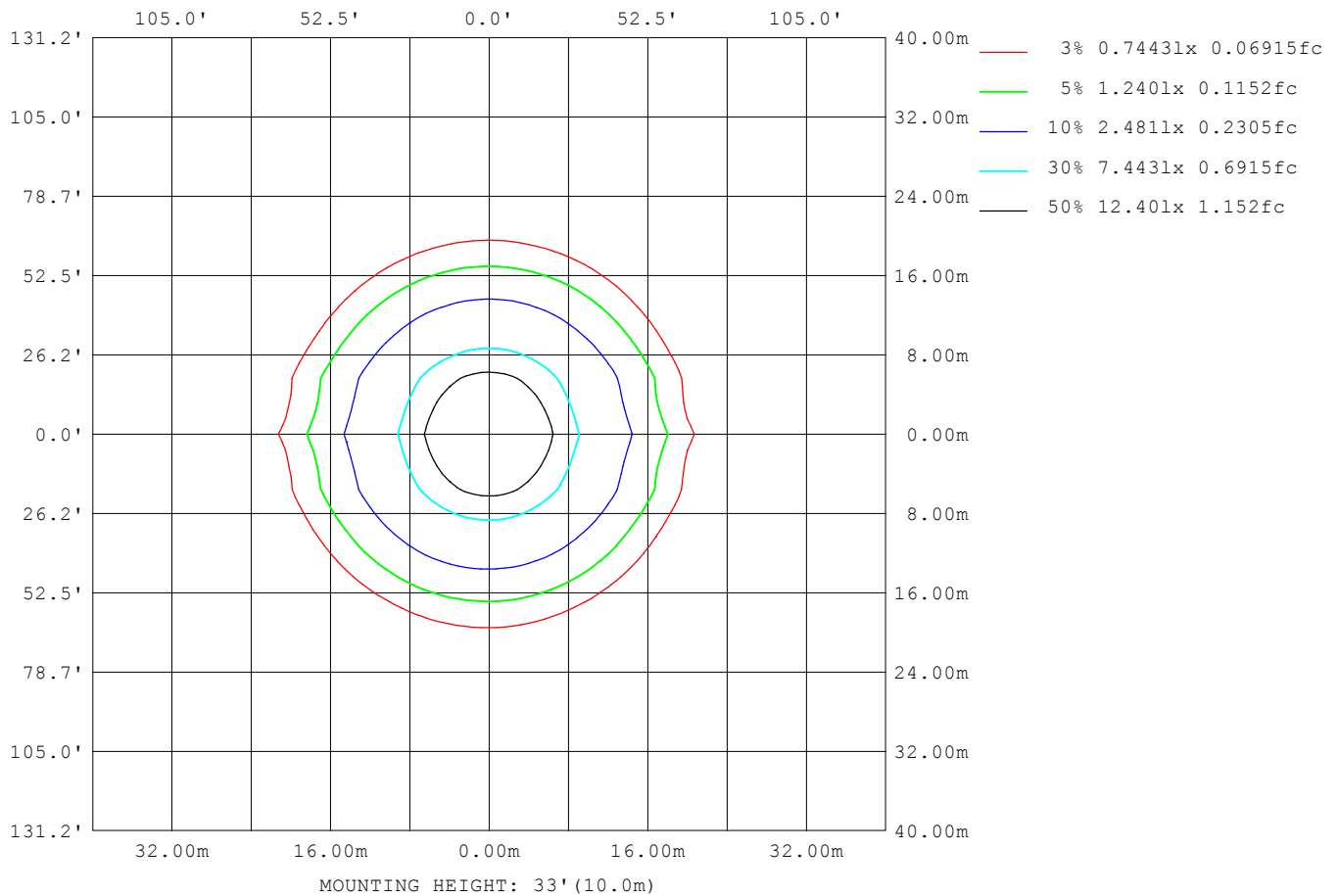
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

H(□) Range:-90 - 90DEG
H(□) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jessy
Test Date:2025-01-14

V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:7.228m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

Test:U:120.12V I:0.3432A P:41.100W PF:0.9969 Freq:59.98Hz Lamp Flux:6481.23x1 lm		
NAME: LED Explosion-proof Light	TYPE:Flood Light	WEIGHT:N/A
SPEC.:40W	DIM.: 520*90mm	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:2025-01-14

V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:7.228m [K=1.0000]
Remarks:

LED Avg.L Report

Test:U:120.12V I:0.3432A P:41.100W PF:0.9969 Freq:59.98Hz Lamp Flux:6481.23x1 lm		
NAME: LED Explosion-proof Light	TYPE:Flood Light	WEIGHT:N/A
SPEC.:40W	DIM.: 520*90mm	SERIAL No.:N/A
MFR.: Grin Industrial Co., Ltd.	SUR.:N/A	Shielding Angle:N/A

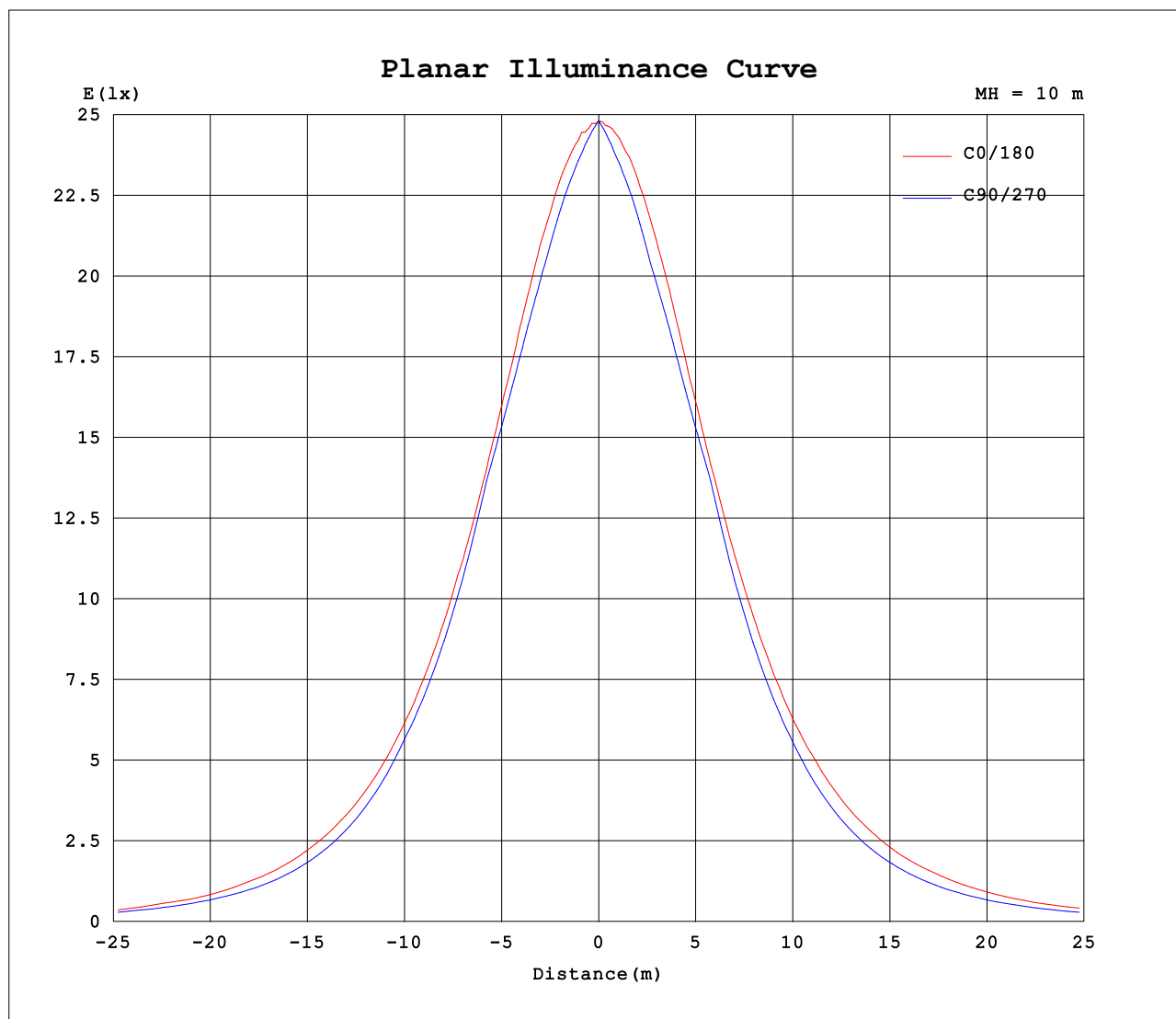
AvgL	cd/m2
L_0~180 (65) av	89710
L_0~180 (75) av	62947
L_0~180 (85) av	13554
L_90~270 (65) av	68292
L_90~270 (75) av	41418
L_90~270 (85) av	0
L_45 (65) av	70978
L_45 (75) av	47440
L_45 (85) av	0

Standard: GB/T 29293-2012

H(□) Range:-90 - 90DEG
H(□) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jessy
Test Date:2025-01-14

V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:7.228m [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:2025-01-14

V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:7.228m [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:65.0%
Test Distance:7.228m [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:65.0%
Test Distance:7.228m [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:65.0%
Test Distance:7.228m [K=1.0000]
Remarks:

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