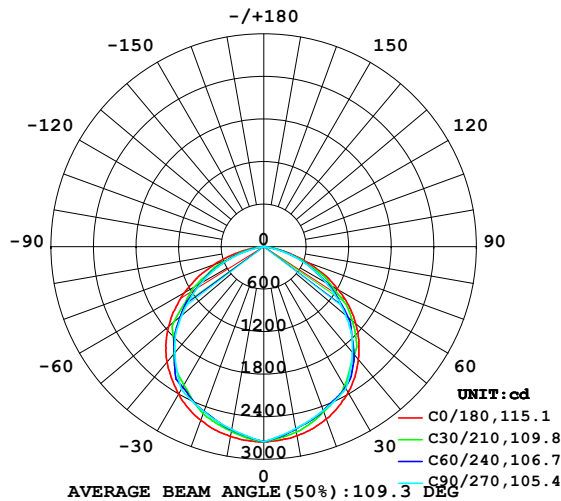


LUMINAIRE PHOTOMETRIC TEST REPORT

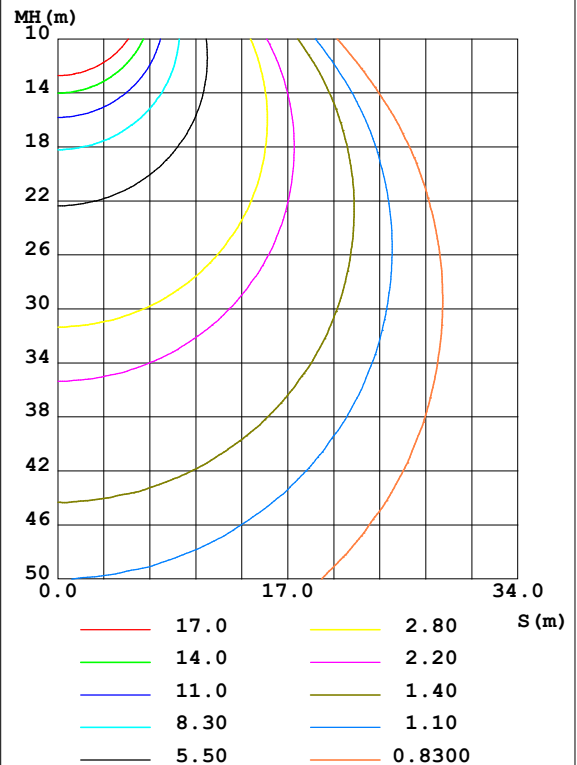
Test:U:120.16V I:0.4052A P:48.500W PF:0.9962 Freq:59.98Hz Lamp Flux:7195.35x1 lm		
NAME: LED Linear Explosion-proof Light	TYPE:Flood Light	WEIGHT:N/A
SPEC.:45W/4000K	DIM.: 1450*10mm	SERIAL No.:N/A
MFR.: Grin Industrial Co., Ltd.	SUR.:N/A	Shielding Angle:N/A

DATA OF LAMP		PHOTOMETRIC DATA Eff: 148.36 lm/W			
MODEL	EHLV-08-U	Imax(cd)	2754	S/MH(C0/180)	1.30
NOMINAL POWER(W)	45	LOR(%)	100.0	S/MH(C90/270)	1.25
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	7195.3	□ UP,DN(C0-180)	0.0,49.9
NOMINAL FLUX(lm)	7195.35	CIE CLASS	DIRECT	□ UP,DN(C180-360)	0.0,50.1
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:2025-01-07

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:7.178m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

°	C0	C45	C90	C135	C180	C225	C270	C315	°	□ zone	□ total	%lum, lamp
10	2708	2630	2606	2626	2719	2632	2617	2638	0- 10	256.0	256.0	3.56, 3.56
20	2585	2475	2460	2450	2603	2468	2475	2495	10- 20	726.4	982.4	13.7, 13.7
30	2378	2269	2315	2264	2404	2275	2326	2284	20- 30	1108	2090	29, 29
40	2076	2020	1945	2039	2122	2036	1951	2026	30- 40	1349	3439	47.8, 47.8
50	1696	1552	1511	1601	1752	1591	1512	1571	40- 50	1385	4824	67, 67
60	1212	1050	1012	1090	1291	1079	1009	1068	50- 60	1193	6017	83.6, 83.6
70	666.0	556.8	536.6	554.3	747.3	553.5	515.2	561.5	60- 70	812.9	6830	94.9, 94.9
80	136.1	127.9	0	122.9	213.2	99.59	0	127.6	70- 80	343.3	7173	99.7, 99.7
90	7.167	0	0	0	7.146	0	0	0	80- 90	22.46	7195	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): 4140.6 lm

%lum = 57.5%

%lamp = 57.5%

Conical surface Flux(120deg): 6016.7 lm

%lum = 83.6%

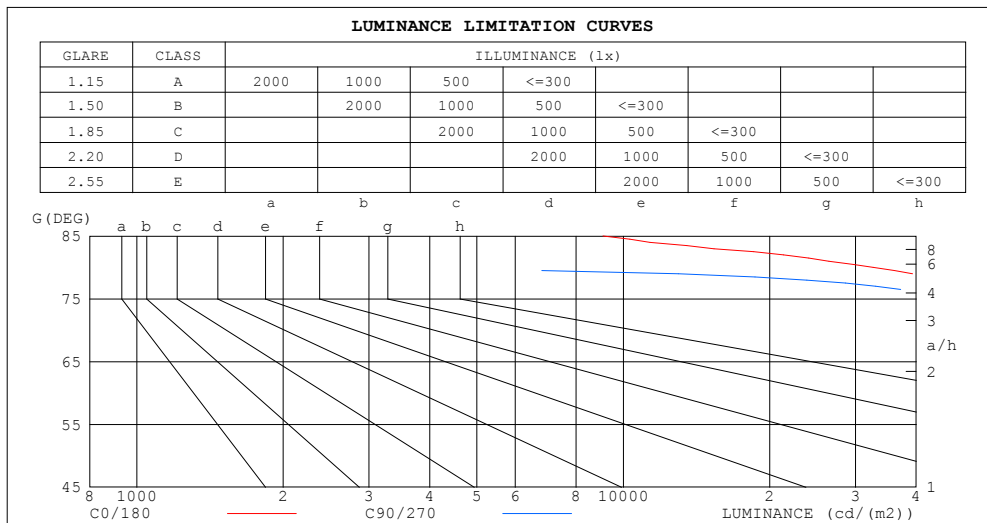
%lamp = 83.6%

H(□) Range:-90 - 90DEG
 H(□) Interval: 1.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:Jessy
 Test Date:2025-01-07

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:7.178m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:120.16V I:0.4052A P:48.500W PF:0.9962 Freq:59.98Hz Lamp Flux:7195.35x1 lm		
NAME: LED Linear Explosion-proof Light	TYPE:Flood Light	WEIGHT:N/A
SPEC.:45W/4000K	DIM.: 1450*10mm	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	9084	0
80	32645	0
75	61420	47871
70	81136	65368
65	94174	76409
60	100978	84355
55	106901	91612
50	109939	97956
45	111795	103456

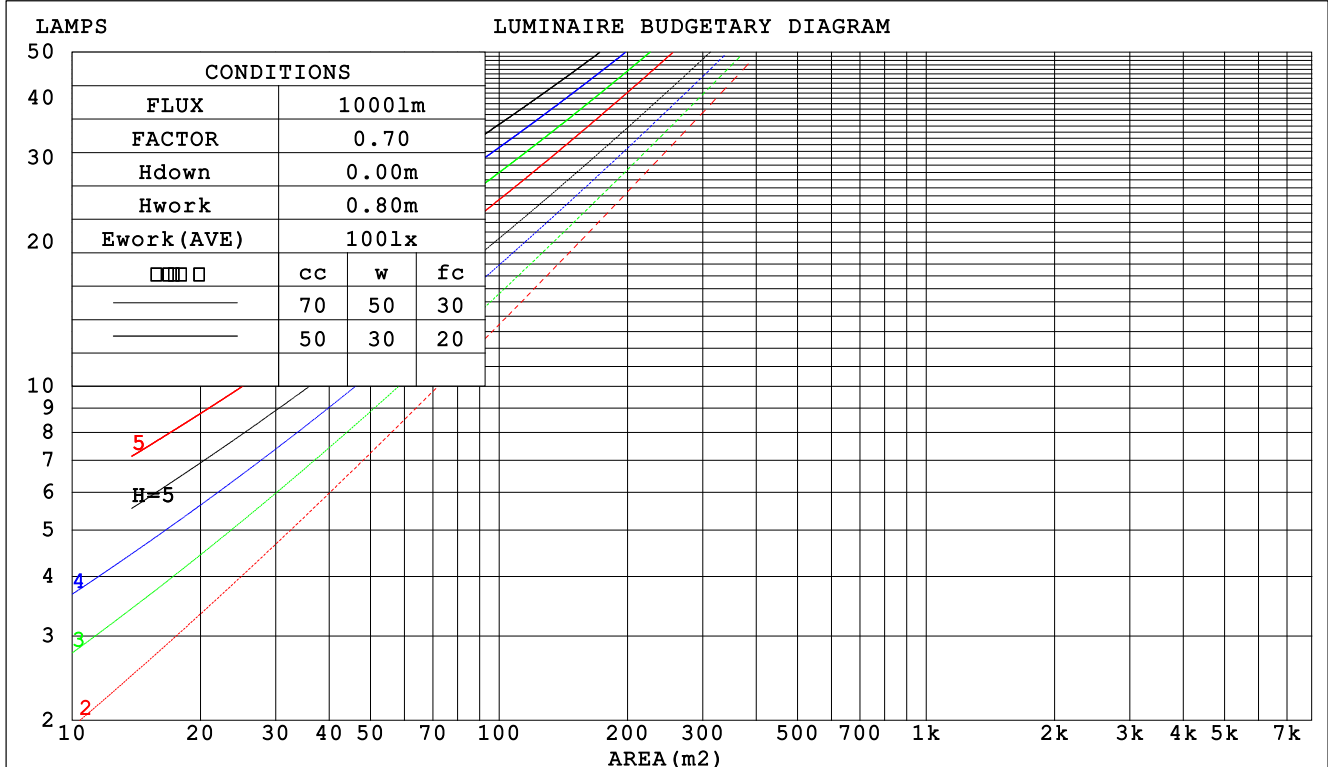
H(□) Range:-90 - 90DEG
H(□) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jessy
Test Date:2025-01-07

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:7.178m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.16V I:0.4052A P:48.500W PF:0.9962 Freq:59.98Hz Lamp Flux:7195.35x1 lm		
NAME: LED Linear Explosion-proof Light	TYPE:Flood Light	WEIGHT:N/A
SPEC.:45W/4000K	DIM.: 1450*10mm	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	.00
1.0	1.05	1.02	.98	1.03	.90	.96	.99	.96	.93	.95	.93	.91	.92	.90	.88	.86
2.0	.93	.86	.81	.91	.85	.80	.87	.82	.78	.84	.80	.76	.81	.78	.75	.72
3.0	.82	.74	.68	.80	.73	.67	.77	.71	.66	.74	.69	.65	.72	.67	.64	.61
4.0	.72	.64	.57	.71	.63	.57	.69	.62	.56	.66	.60	.56	.64	.59	.55	.53
5.0	.65	.56	.50	.64	.55	.49	.62	.54	.49	.60	.53	.48	.58	.52	.48	.46
6.0	.58	.50	.43	.57	.49	.43	.56	.48	.43	.54	.47	.42	.52	.47	.42	.40
7.0	.53	.44	.38	.52	.44	.38	.51	.43	.38	.49	.43	.38	.48	.42	.37	.35
8.0	.48	.40	.34	.48	.40	.34	.46	.39	.34	.45	.38	.34	.44	.38	.33	.32
9.0	.44	.36	.31	.44	.36	.31	.43	.35	.31	.42	.35	.30	.41	.35	.30	.28
10.0	.41	.33	.28	.40	.33	.28	.39	.32	.28	.38	.32	.28	.38	.32	.27	.26



H(□) Range:-90 - 90DEG
H(□) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jessy
Test Date:2025-01-07

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:7.178m [K=1.0000]
Remarks:

WEC AND CCEC

Test:U:120.16V I:0.4052A P:48.500W PF:0.9962 Freq:59.98Hz Lamp Flux:7195.35x1 lm		
NAME: LED Linear Explosion-proof Light	TYPE:Flood Light	WEIGHT:N/A
SPEC.:45W/4000K	DIM.: 1450*10mm	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	.280	.159	.050	.273	.156	.049	.260	.149	.048	.248	.143	.046	.236	.137	.044		
2.0	.272	.149	.046	.265	.146	.045	.254	.141	.044	.243	.137	.043	.234	.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	.197	.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:2025-01-07

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:7.178m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

Test:U:120.16V I:0.4052A P:48.500W PF:0.9962 Freq:59.98Hz Lamp Flux:7195.35x1 lm										
NAME: LED Linear Explosion-proof Light					TYPE:Flood Light			WEIGHT:N/A		
SPEC.:45W/4000K					DIM.: 1450*10mm			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	22.2	23.7	22.5	23.9	24.1	21.6	23.1	21.9	23.3	23.5
3H	23.4	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	24.4	24.7
8H	23.9	25.0	24.2	25.3	25.6	22.9	24.1	23.3	24.4	24.6
12H	23.8	24.9	24.2	25.2	25.5	22.9	24.0	23.2	24.3	24.6
4H 2H	22.6	23.9	22.9	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	24.8	25.7	26.1	23.7	24.8	24.1	25.1	25.4
6H	24.6	25.5	25.0	25.8	26.2	23.8	24.7	24.2	25.0	25.4
8H	24.6	25.4	25.0	25.8	26.2	23.7	24.5	24.1	24.9	25.3
12H	24.6	25.3	25.0	25.7	26.1	23.7	24.4	24.1	24.8	25.2
8H 4H	24.5	25.3	24.9	25.7	26.1	23.9	24.7	24.3	25.1	25.5
6H	24.7	25.4	25.2	25.8	26.3	23.9	24.6	24.4	25.0	25.4
8H	24.8	25.4	25.2	25.8	26.2	23.9	24.5	24.3	24.9	25.4
12H	24.8	25.3	25.2	25.7	26.2	23.8	24.4	24.3	24.8	25.3
12H 4H	24.5	25.2	24.9	25.6	26.0	23.9	24.6	24.3	25.0	25.4
6H	24.7	25.3	25.2	25.7	26.2	23.9	24.5	24.4	24.9	25.4
8H	24.7	25.3	25.2	25.7	26.2	23.9	24.4	24.3	24.8	25.3
Variations with the observer position at spacings:										
S = 1.0H	+ 0.3 / - 0.3					+ 0.3 / - 0.3				
1.5H	+ 0.3 / - 0.4					+ 0.2 / - 0.4				
2.0H	+ 0.3 / - 0.6					+ 0.4 / - 0.5				

CIE Pub.117, 7195 lm Total Lamp Luminous Flux Correct ($8\log(F/F_0) = 6.9$)
Area: 0.024 m²

H(□) Range:-90 - 90DEG
H(□) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jessy
Test Date:2025-01-07

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:7.178m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:120.16V I:0.4052A P:48.500W PF:0.9962 Freq:59.98Hz Lamp Flux:7195.35x1 lm		
NAME: LED Linear Explosion-proof Light	TYPE:Flood Light	WEIGHT:N/A
SPEC.:45W/4000K	DIM.: 1450*10mm	SERIAL No.:N/A
MFR.: Grin Industrial Co., Ltd.	SUR.:N/A	Shielding Angle:N/A

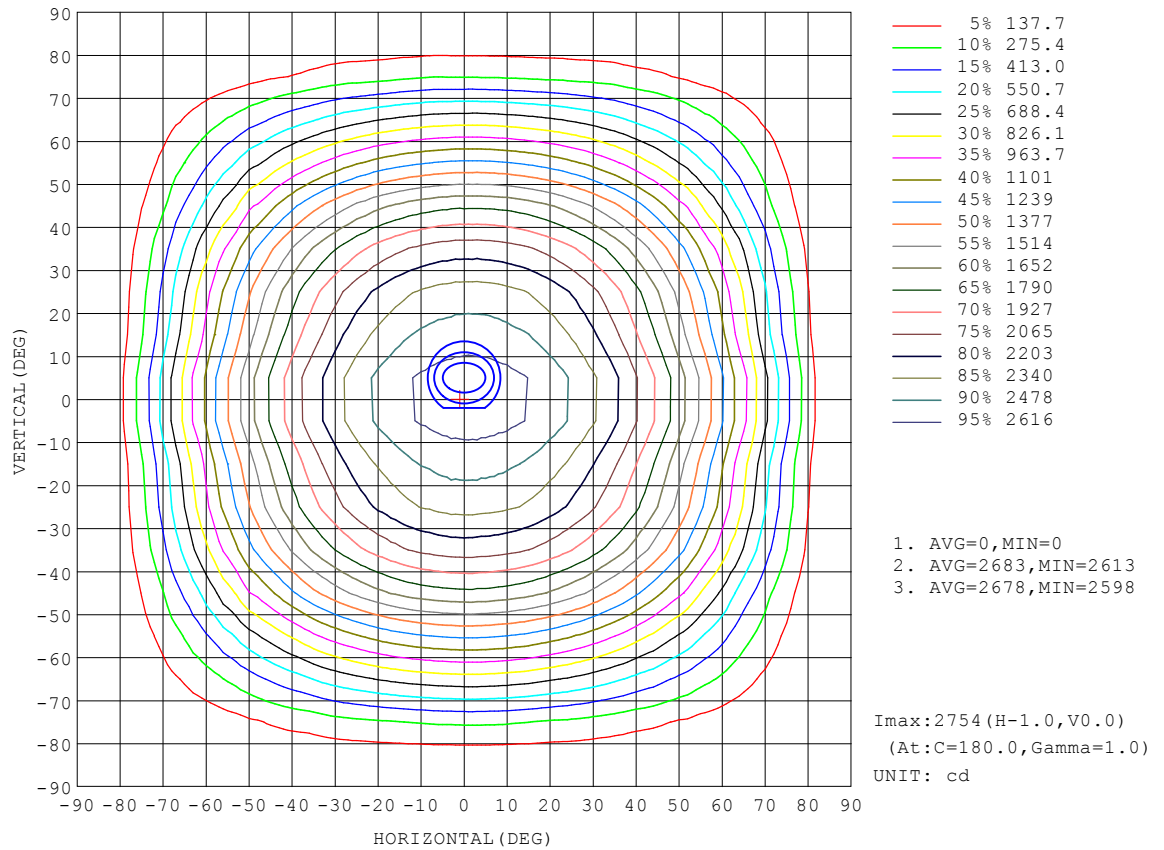
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	59	48	41	58	47	41	57	47	41	34
0.80	69	58	51	68	58	51	67	57	50	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	92	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:2025-01-07

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:7.178m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:120.16V I:0.4052A P:48.500W PF:0.9962 Freq:59.98Hz Lamp Flux:7195.35x1 lm		
NAME: LED Linear Explosion-proof Light	TYPE:Flood Light	WEIGHT:N/A
SPEC.:45W/4000K	DIM.: 1450*10mm	SERIAL No.:N/A
MFR.: Grin Industrial Co., Ltd.	SUR.:N/A	Shielding Angle:N/A

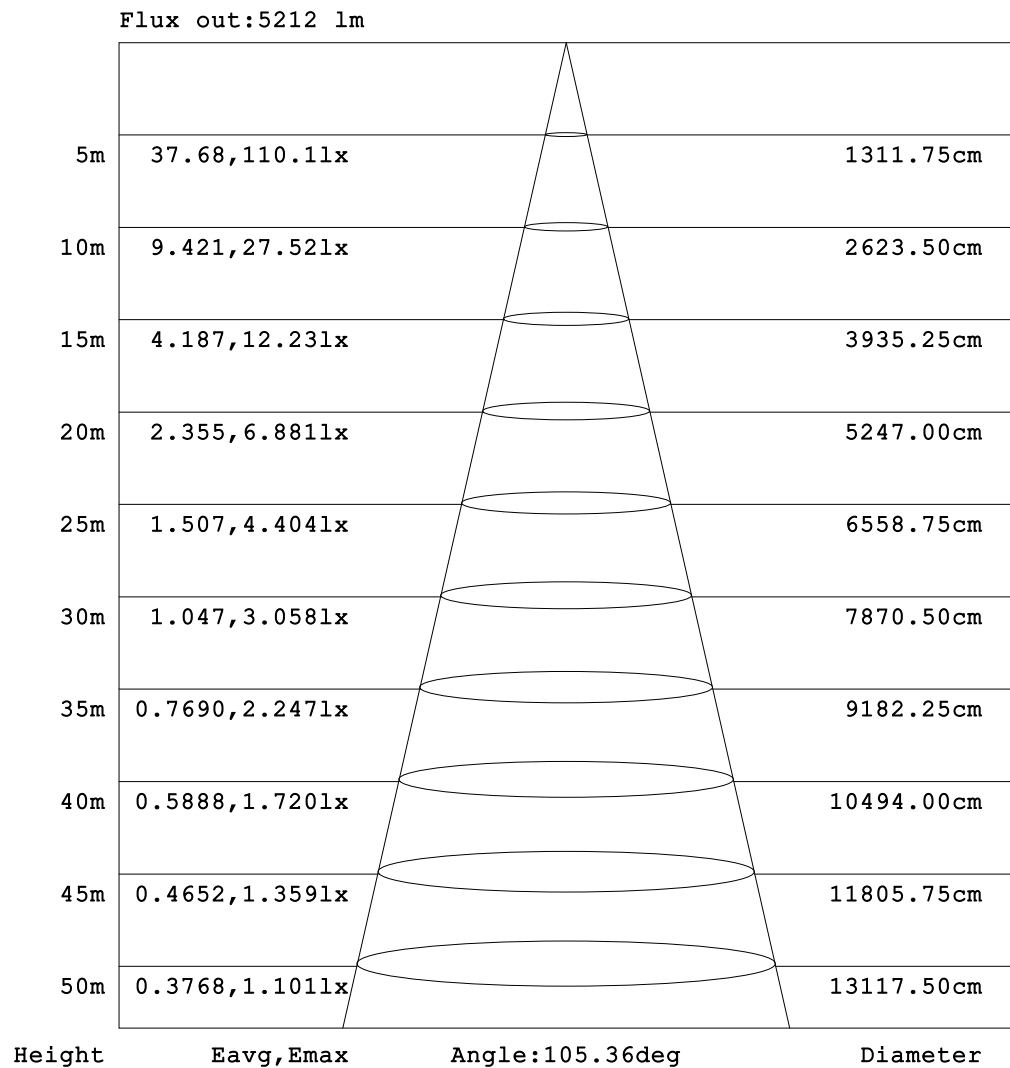


H(□) Range:-90 - 90DEG
H(□) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jessy
Test Date:2025-01-07

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:7.178m [K=1.0000]
Remarks:

AAI Figure

Test:U:120.16V I:0.4052A P:48.500W PF:0.9962 Freq:59.98Hz Lamp Flux:7195.35x1 lm		
NAME: LED Linear Explosion-proof Light	TYPE:Flood Light	WEIGHT:N/A
SPEC.:45W/4000K	DIM.: 1450*10mm	SERIAL No.:N/A
MFR.: Grin Industrial Co., Ltd.	SUR.:N/A	Shielding Angle:N/A



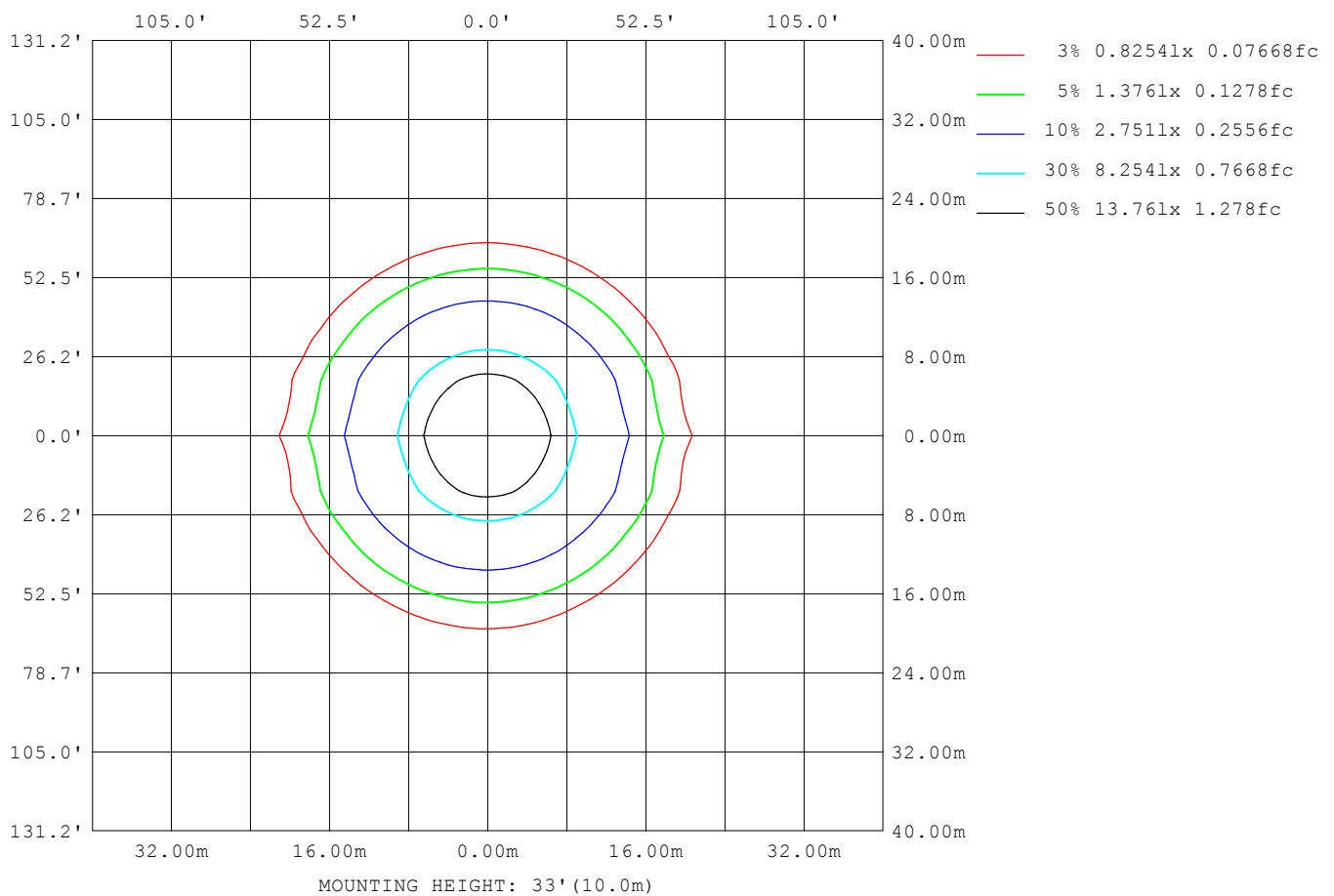
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

H(□) Range:-90 - 90DEG
H(□) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jessy
Test Date:2025-01-07

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:7.178m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

Test:U:120.16V I:0.4052A P:48.500W PF:0.9962 Freq:59.98Hz Lamp Flux:7195.35x1 lm		
NAME: LED Linear Explosion-proof Light	TYPE:Flood Light	WEIGHT:N/A
SPEC.:45W/4000K	DIM.: 1450*10mm	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:2025-01-07

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:7.178m [K=1.0000]
Remarks:

LED Avg.L Report

Test:U:120.16V I:0.4052A P:48.500W PF:0.9962 Freq:59.98Hz Lamp Flux:7195.35x1 lm		
NAME: LED Linear Explosion-proof Light	TYPE:Flood Light	WEIGHT:N/A
SPEC.:45W/4000K	DIM.: 1450*10mm	SERIAL No.:N/A
MFR.: Grin Industrial Co., Ltd.	SUR.:N/A	Shielding Angle:N/A

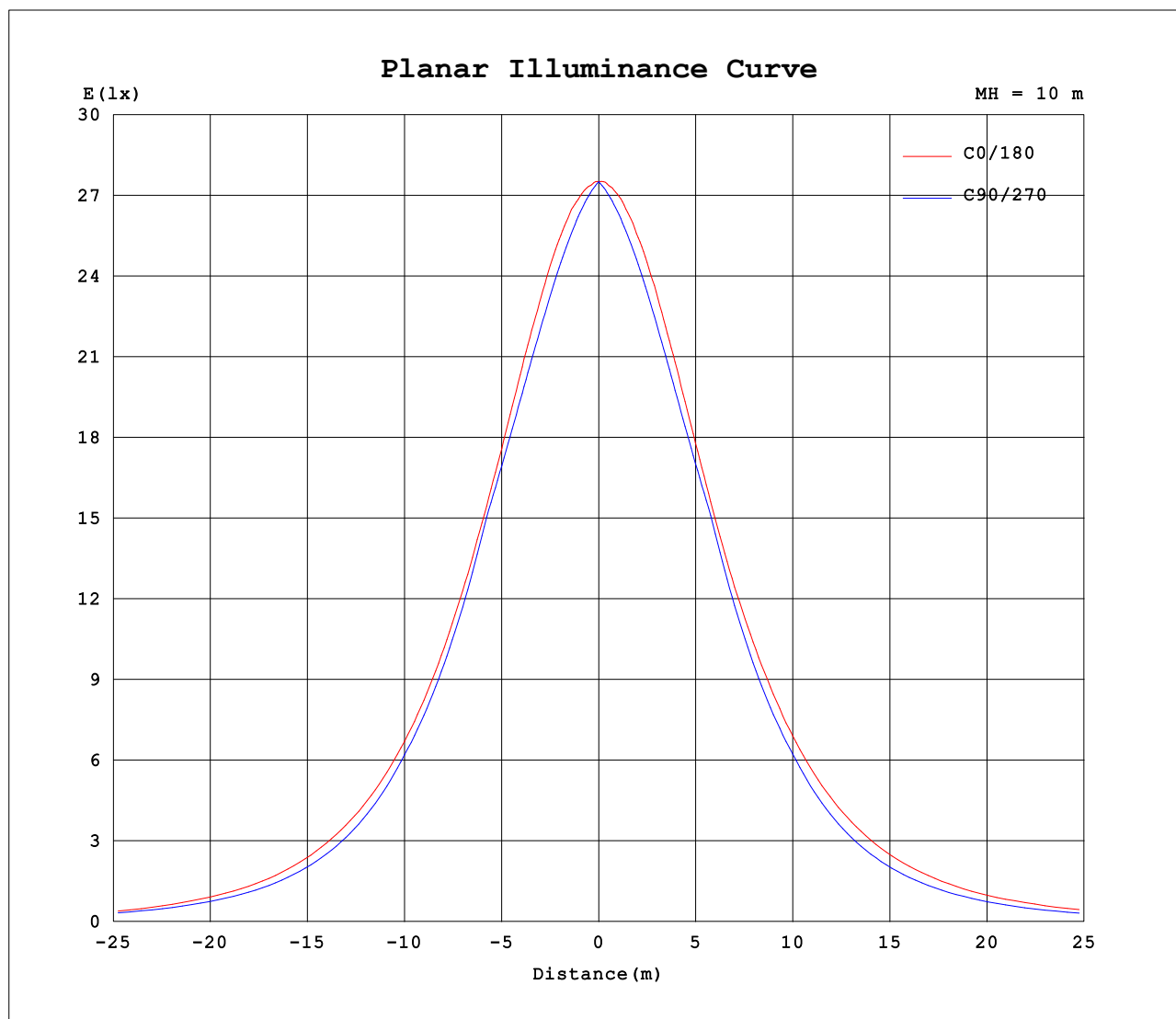
AvgL	cd/m2
L_0~180 (65) av	98172
L_0~180 (75) av	68245
L_0~180 (85) av	14080
L_90~270 (65) av	75710
L_90~270 (75) av	45483
L_90~270 (85) av	0
L_45 (65) av	79180
L_45 (75) av	53838
L_45 (85) av	0

Standard: GB/T 29293-2012

H(□) Range:-90 - 90DEG
H(□) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jessy
Test Date:2025-01-07

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:7.178m [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:2025-01-07

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:7.178m [K=1.0000]
Remarks:

```
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Remarks:
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Humidity:65.0%
Test Distance:7.178m [K=1.0000]
Remarks:
```

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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:7.178m [K=1.0000]
Remarks:
```