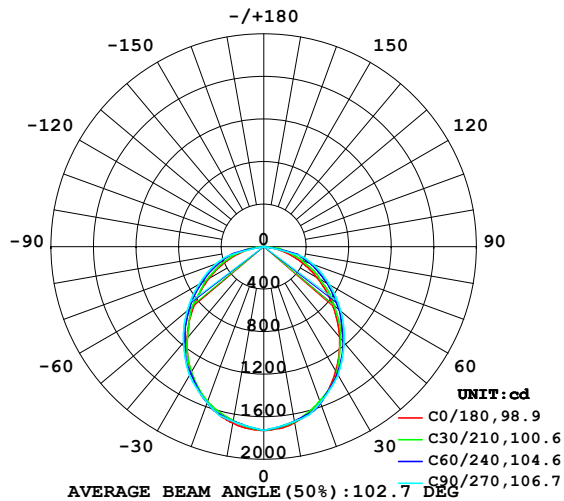


LUMINAIRE PHOTOMETRIC TEST REPORT

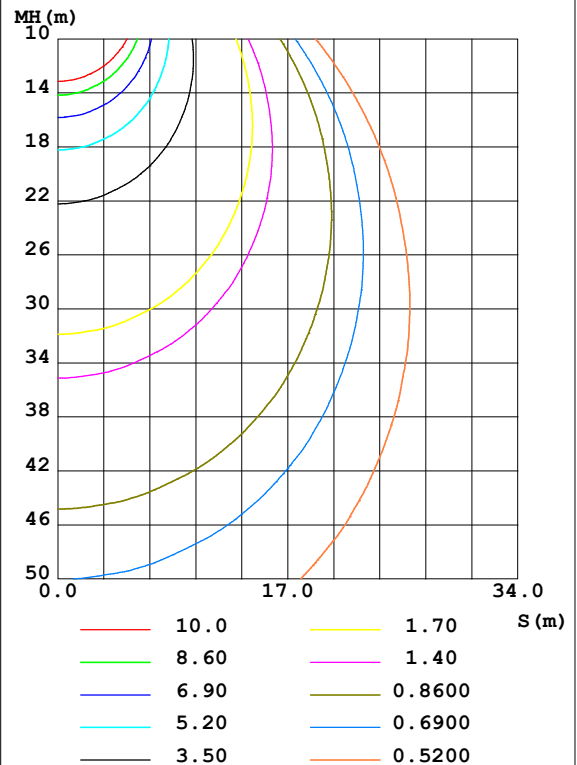
Test:U:120.16V I:0.2760A P:32.831W PF:0.9901 Freq:59.98Hz Lamp Flux:4415.72x1 lm		
NAME: LED Linear Explosion-proof Light	TYPE:Flood Light	WEIGHT:N/A
SPEC.:30W/4000K	DIM.: 500*100mm	SERIAL No.:N/A
MFR.: Grin Industrial Co., Ltd.	SUR.:N/A	Shielding Angle:N/A

DATA OF LAMP		PHOTOMETRIC DATA Eff: 134.50 lm/W			
MODEL	EHLV-05-U	Imax(cd)	1727	S/MH(C0/180)	1.18
NOMINAL POWER(W)	30	LOR(%)	100.0	S/MH(C90/270)	1.21
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	4415.7	□ UP,DN(C0-180)	0.0,50.1
NOMINAL FLUX(lm)	4415.72	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:2025-01-07

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	1679	1666	1669	1664	1683	1664	1669	1668	0- 10	161.5	161.5	3.66, 3.66
20	1554	1571	1559	1554	1562	1558	1560	1571	10- 20	457.3	618.8	14, 14
30	1353	1366	1398	1365	1367	1366	1399	1370	20- 30	676.1	1295	29.3, 29.3
40	1109	1144	1175	1152	1121	1153	1175	1149	30- 40	788.4	2083	47.2, 47.2
50	841.7	886.4	946.1	900.9	855.9	899.0	941.4	889.3	40- 50	786.2	2869	65, 65
60	575.2	646.9	710.6	654.7	592.8	650.2	699.0	644.7	50- 60	688.2	3558	80.6, 80.6
70	325.7	427.7	494.6	423.4	346.1	413.7	477.3	417.8	60- 70	523.6	4081	92.4, 92.4
80	106.0	195.4	0	184.3	124.2	175.6	0	181.3	70- 80	304.7	4386	99.3, 99.3
90	4.207	0	0	0	4.890	0	0	0	80- 90	29.70	4416	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): 2483.1 lm

%lum = 56.2%

%lamp = 56.2%

Conical surface Flux(120deg): 3557.7 lm

%lum = 80.6%

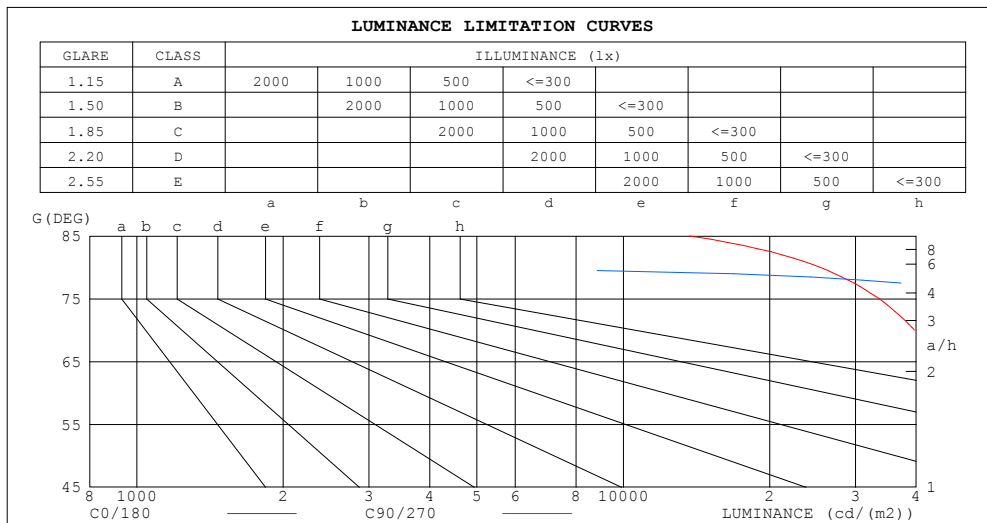
%lamp = 80.6%

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:0.2760A P:32.831W PF:0.9901 Freq:59.98Hz Lamp Flux:4415.72x1 lm		
NAME: LED Linear Explosion-proof Light	TYPE:Flood Light	WEIGHT:N/A
SPEC.:30W/4000K	DIM.: 500*100mm	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	13680	0
80	25427	0
75	33577	62240
70	39684	60260
65	44206	59382
60	47935	59220
55	51375	60124
50	54558	61327
45	57450	62619

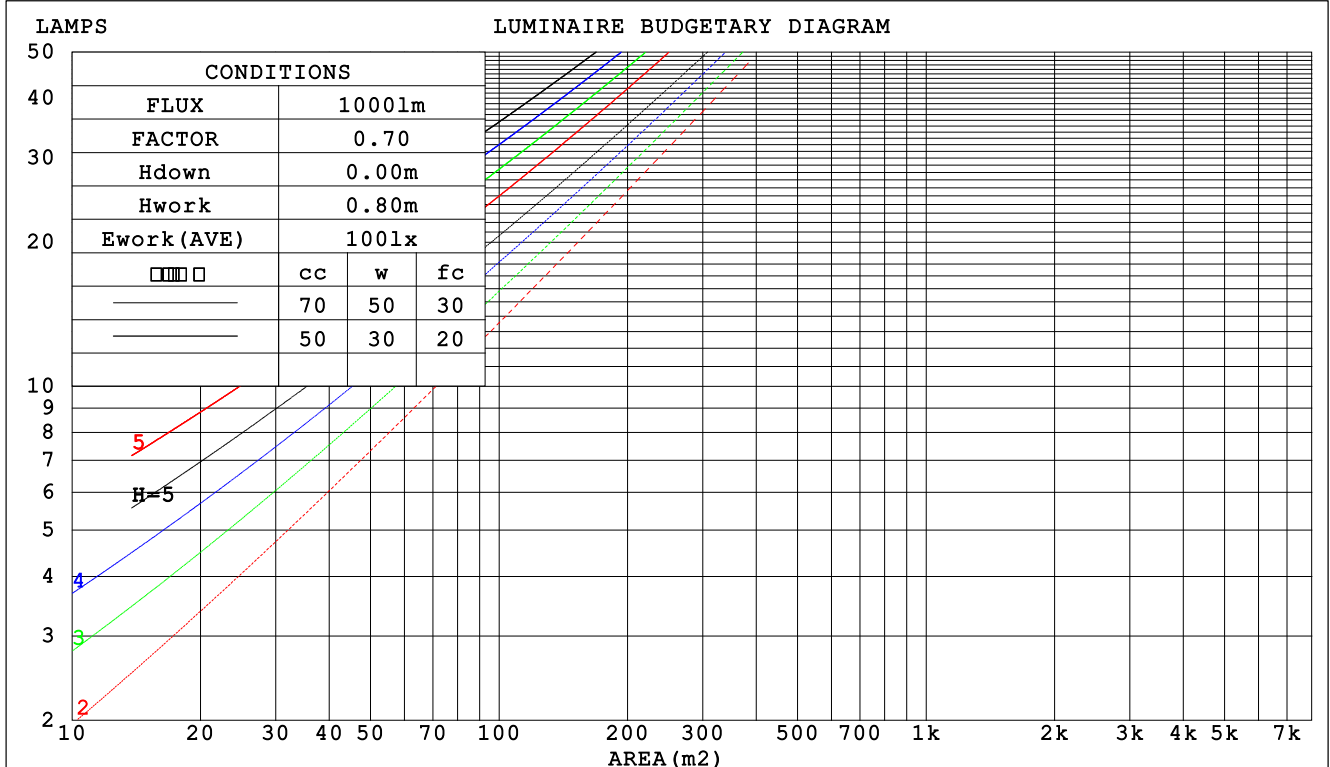
H(□) Range:-90 - 90DEG
H(□) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jessy
Test Date:2025-01-07

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:0.2760A P:32.831W PF:0.9901 Freq:59.98Hz Lamp Flux:4415.72x1 lm		
NAME: LED Linear Explosion-proof Light	TYPE:Flood Light	WEIGHT:N/A
SPEC.:30W/4000K	DIM.: 500*100mm	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:2025-01-07

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:0.2760A P:32.831W PF:0.9901 Freq:59.98Hz Lamp Flux:4415.72x1 lm					
NAME: LED Linear Explosion-proof Light			TYPE:Flood Light		WEIGHT:N/A
SPEC.:30W/4000K			DIM.: 500*100mm		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	.294	.167	.053	.286	.163	.052	.273	.157	.050	.261	.151	.048	.250	.145	.047		
2.0	.281	.154	.047	.275	.152	.047	.264	.147	.046	.253	.142	.044	.243	.137	.043		
3.0	.262	.140	.042	.257	.138	.041	.247	.134	.041	.237	.130	.040	.228	.126	.039		
4.0	.243	.126	.037	.238	.125	.037	.229	.122	.036	.221	.119	.036	.213	.116	.035		
5.0	.225	.115	.033	.221	.114	.033	.213	.111	.033	.206	.108	.032	.199	.106	.032		
6.0	.210	.105	.030	.206	.104	.030	.199	.102	.030	.192	.100	.029	.186	.098	.029		
7.0	.195	.097	.027	.192	.096	.027	.186	.094	.027	.180	.092	.027	.174	.090	.027		
8.0	.183	.089	.025	.180	.088	.025	.174	.087	.025	.169	.085	.025	.163	.084	.024		
9.0	.171	.083	.023	.169	.082	.023	.164	.081	.023	.159	.080	.023	.154	.078	.023		
10.0	.161	.077	.021	.159	.077	.021	.154	.076	.021	.150	.074	.021	.146	.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	.179	.156	.136	.153	.134	.117	.105	.092	.081	.060	.053	.047	.019	.017	.015	
2.0	.171	.132	.099	.146	.114	.086	.100	.079	.060	.058	.046	.035	.019	.015	.011	
3.0	.163	.114	.075	.140	.099	.065	.096	.068	.046	.055	.040	.027	.018	.013	.009	
4.0	.155	.101	.059	.133	.087	.051	.092	.061	.036	.053	.036	.021	.017	.012	.007	
5.0	.148	.090	.048	.127	.078	.042	.088	.055	.029	.051	.032	.017	.016	.010	.006	
6.0	.141	.082	.040	.121	.071	.035	.084	.050	.024	.048	.029	.015	.016	.010	.005	
7.0	.134	.075	.034	.115	.065	.029	.080	.046	.021	.046	.027	.012	.015	.009	.004	
8.0	.128	.069	.029	.110	.060	.025	.076	.042	.018	.044	.025	.011	.014	.008	.004	
9.0	.122	.064	.026	.105	.056	.022	.073	.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:0.2760A P:32.831W PF:0.9901 Freq:59.98Hz Lamp Flux:4415.72x1 lm										
NAME: LED Linear Explosion-proof Light					TYPE:Flood Light			WEIGHT:N/A		
SPEC.:30W/4000K					DIM.: 500*100mm			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	21.2	22.7	21.4	22.9	23.1	22.0	23.5	22.3	23.7	23.9
3H	22.4	23.8	22.7	24.0	24.3	23.8	25.2	24.1	25.4	25.7
4H	22.9	24.2	23.2	24.4	24.7	24.7	26.0	25.0	26.2	26.5
6H	23.1	24.4	23.5	24.6	24.9	24.8	26.0	25.1	26.3	26.6
8H	23.2	24.4	23.5	24.6	24.9	24.7	25.9	25.1	26.2	26.5
12H	23.2	24.3	23.5	24.6	24.9	24.7	25.8	25.0	26.1	26.4
4H 2H	21.9	23.2	22.2	23.5	23.7	22.6	23.9	22.9	24.1	24.4
3H	23.4	24.5	23.7	24.8	25.1	24.6	25.7	24.9	26.0	26.3
4H	24.0	25.0	24.3	25.3	25.6	25.6	26.6	26.0	27.0	27.3
6H	24.3	25.3	24.7	25.6	26.0	25.8	26.7	26.2	27.0	27.4
8H	24.4	25.3	24.8	25.6	26.0	25.7	26.6	26.1	27.0	27.3
12H	24.4	25.2	24.9	25.6	26.0	25.7	26.5	26.1	26.9	27.3
8H 4H	24.4	25.3	24.9	25.7	26.1	25.9	26.7	26.3	27.1	27.5
6H	25.0	25.7	25.5	26.1	26.6	26.1	26.8	26.5	27.2	27.6
8H	25.2	25.9	25.7	26.3	26.7	26.1	26.7	26.5	27.1	27.6
12H	25.3	25.9	25.8	26.3	26.8	26.0	26.6	26.5	27.0	27.5
12H 4H	24.4	25.2	24.9	25.6	26.0	25.9	26.7	26.3	27.0	27.4
6H	25.1	25.7	25.5	26.1	26.6	26.1	26.8	26.6	27.2	27.6
8H	25.3	25.8	25.7	26.3	26.7	26.1	26.6	26.6	27.1	27.5
Variations with the observer position at spacings:										
S = 1.0H	+ 0.2 / - 0.3					+ 0.2 / - 0.2				
1.5H	+ 0.2 / - 0.3					+ 0.1 / - 0.3				
2.0H	+ 0.3 / - 0.3					+ 0.2 / - 0.4				

CIE Pub.117, 4416 lm Total Lamp Luminous Flux Correct ($8\log(F/F_0) = 5.2$)
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:0.2760A P:32.831W PF:0.9901 Freq:59.98Hz Lamp Flux:4415.72x1 lm		
NAME: LED Linear Explosion-proof Light	TYPE:Flood Light	WEIGHT:N/A
SPEC.:30W/4000K	DIM.: 500*100mm	SERIAL No.:N/A
MFR.: Grin Industrial Co., Ltd.	SUR.:N/A	Shielding Angle:N/A

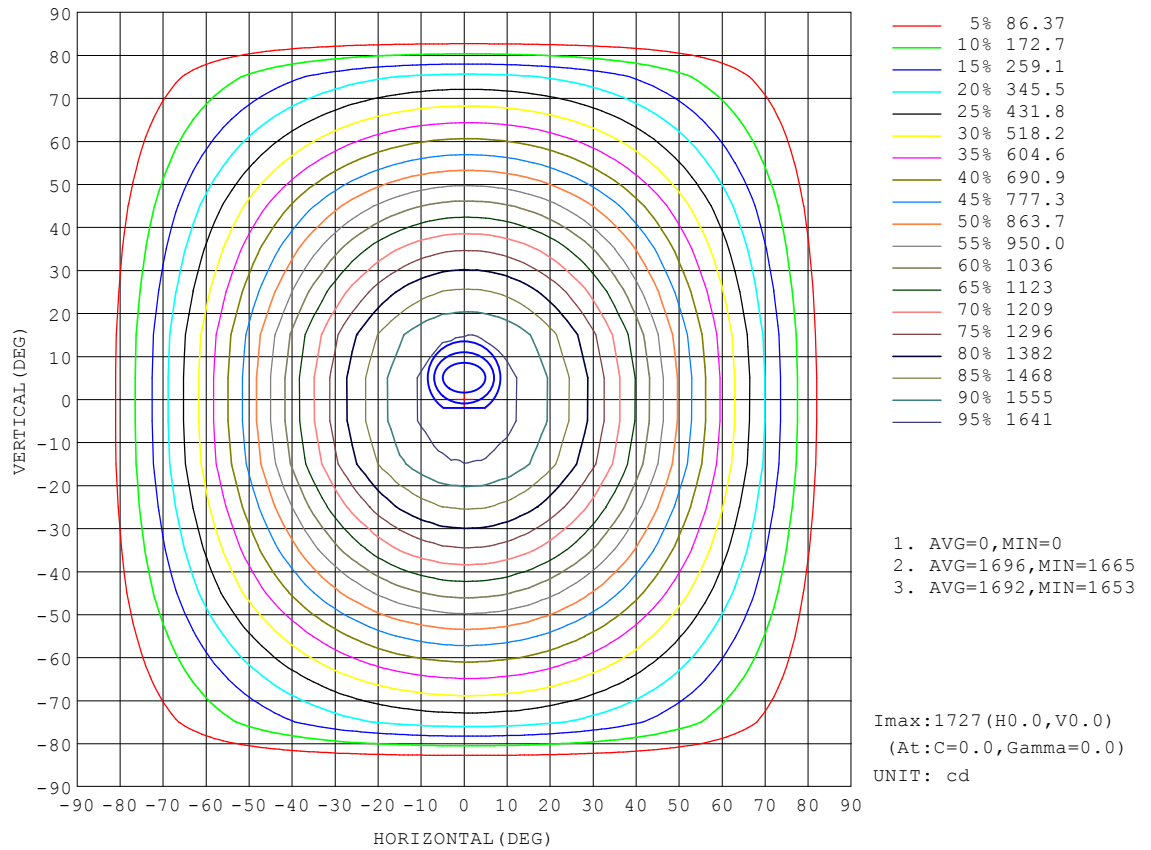
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	59	48	41	58	47	41	57	47	41	34
0.80	69	58	51	68	57	50	66	57	50	43
1.00	77	67	59	76	66	59	74	67	59	52
1.25	84	74	67	83	73	67	80	72	66	59
1.50	89	80	73	88	79	72	85	77	71	64
2.00	96	88	82	94	87	81	91	84	79	72
2.50	100	92	87	98	91	86	94	88	84	76
3.00	103	97	91	101	95	90	97	92	88	80
4.00	107	102	97	105	100	96	100	96	93	84
5.00	109	105	101	107	103	99	102	99	96	87
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:0.2760A P:32.831W PF:0.9901 Freq:59.98Hz Lamp Flux:4415.72x1 lm		
NAME: LED Linear Explosion-proof Light	TYPE:Flood Light	WEIGHT:N/A
SPEC.:30W/4000K	DIM.: 500*100mm	SERIAL No.:N/A
MFR.: Grin Industrial Co., Ltd.	SUR.:N/A	Shielding Angle:N/A

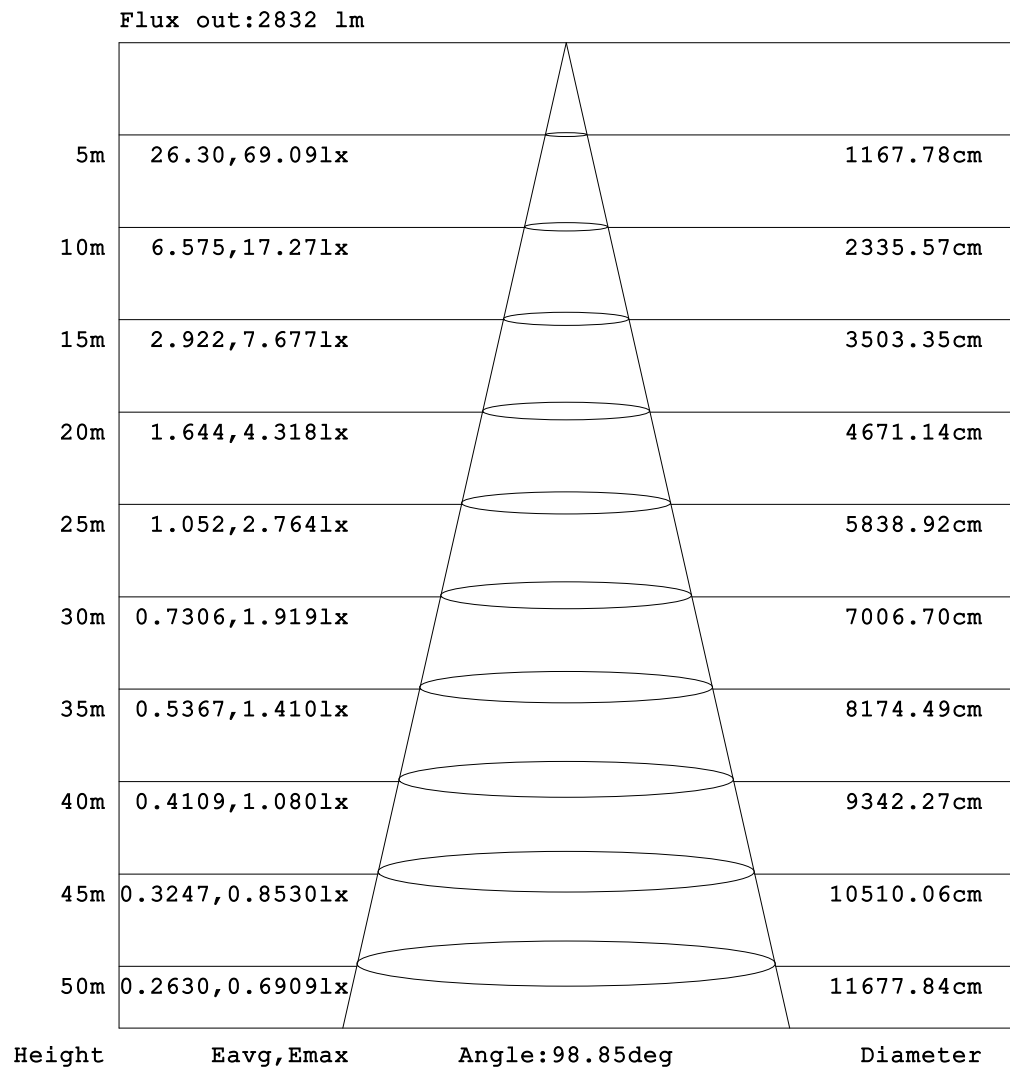


H(□) Range:-90 - 90DEG
H(□) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jessy
Test Date:2025-01-07

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:0.2760A P:32.831W PF:0.9901 Freq:59.98Hz Lamp Flux:4415.72x1 lm		
NAME: LED Linear Explosion-proof Light	TYPE:Flood Light	WEIGHT:N/A
SPEC.:30W/4000K	DIM.: 500*100mm	SERIAL No.:N/A
MFR.: Grin Industrial Co., Ltd.	SUR.:N/A	Shielding Angle:N/A



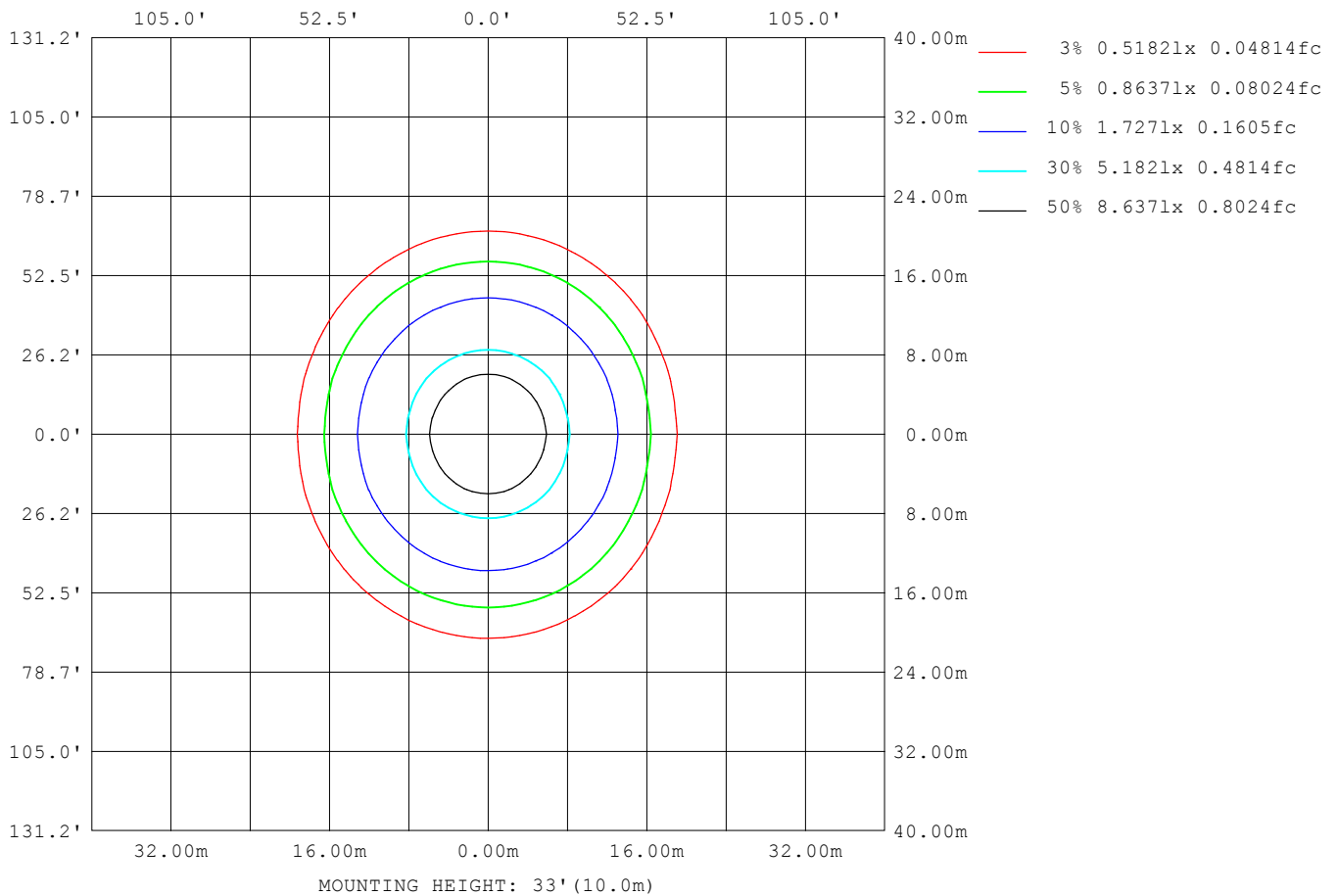
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:0.2760A P:32.831W PF:0.9901 Freq:59.98Hz Lamp Flux:4415.72x1 lm		
NAME: LED Linear Explosion-proof Light	TYPE:Flood Light	WEIGHT:N/A
SPEC.:30W/4000K	DIM.: 500*100mm	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:0.2760A P:32.831W PF:0.9901 Freq:59.98Hz Lamp Flux:4415.72x1 lm		
NAME: LED Linear Explosion-proof Light	TYPE:Flood Light	WEIGHT:N/A
SPEC.:30W/4000K	DIM.: 500*100mm	SERIAL No.:N/A
MFR.: Grin Industrial Co., Ltd.	SUR.:N/A	Shielding Angle:N/A

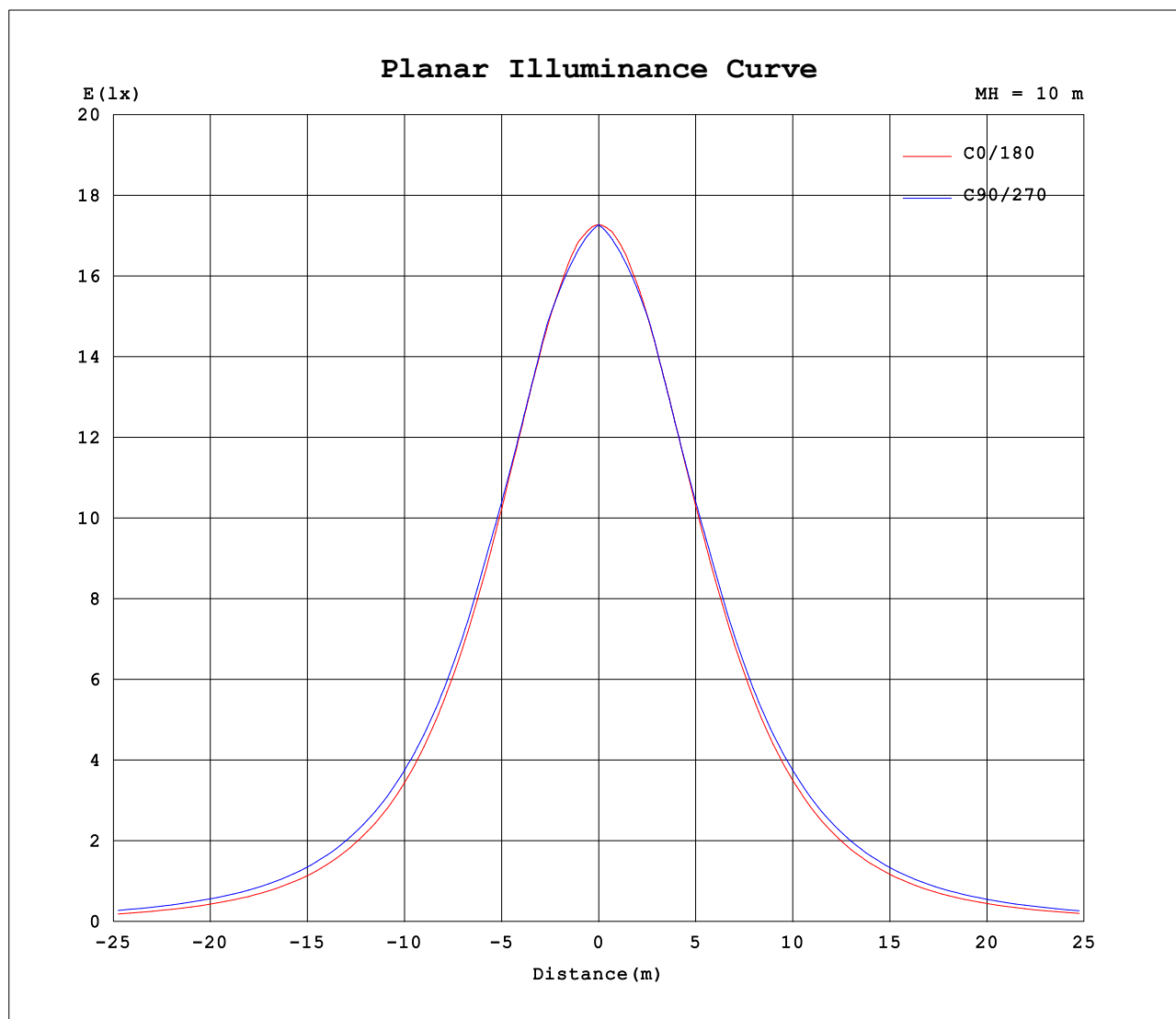
AvgL	cd/m2
L_0~180 (65) av	45160
L_0~180 (75) av	35276
L_0~180 (85) av	16730
L_90~270 (65) av	58684
L_90~270 (75) av	60613
L_90~270 (85) av	0
L_45 (65) av	52383
L_45 (75) av	50944
L_45 (85) av	0

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:

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:

```
V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
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Humidity:65.0%
Test Distance:7.178m [K=1.0000]
Remarks:
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