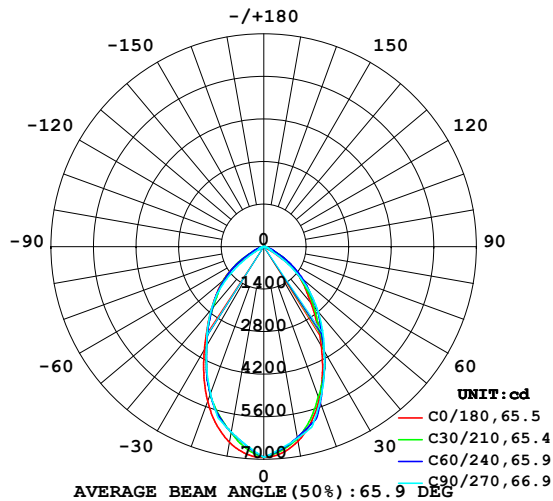


LUMINAIRE PHOTOMETRIC TEST REPORT

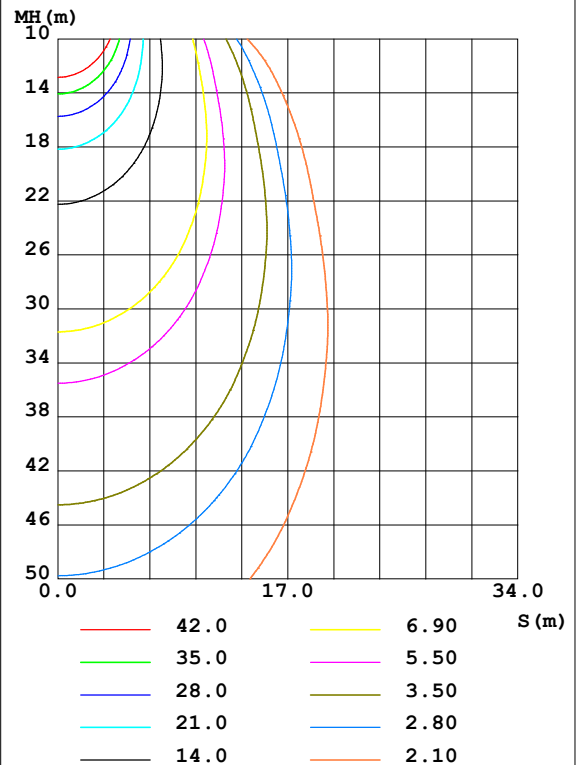
Test:U:120.02V I:0.5126A P:61.367W PF:0.9975 Freq:59.98Hz Lamp Flux:9476.09x1 lm		
NAME: LED Explosion-proof Light	TYPE:Flood Light	WEIGHT:N/A
SPEC.:60W/5000K/60°	DIM.: 190*150mm	SERIAL No.:N/A
MFR.: Grin Industrial Co., Ltd.	SUR.:N/A	Shielding Angle:N/A

DATA OF LAMP		PHOTOMETRIC DATA Eff: 154.42 lm/W			
MODEL	GHSM-10-U	I _{max} (cd)	6935	S/MH(C0/180)	0.94
NOMINAL POWER(W)	60	LOR(%)	100.0	S/MH(C90/270)	0.90
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	9476.1	□ UP,DN(C0-180)	0.0,50.7
NOMINAL FLUX(lm)	9476.09	CIE CLASS	DIRECT	□ UP,DN(C180-360)	0.0,49.3
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:2024-12-17

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:7.078m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

°	C0	C45	C90	C135	C180	C225	C270	C315	°	□ zone	□ total	%lum,lamp
10	6502	6376	6404	6330	6533	6196	6194	6232	0- 10	626.3	626.3	6.61,6.61
20	5342	5501	5418	5380	5412	5164	5136	5256	10- 20	1644	2270	24,24
30	3800	3935	3977	3931	3914	3800	3761	3784	20- 30	2090	4360	46,46
40	2408	2643	2775	2700	2687	2656	2682	2564	30- 40	2002	6362	67.1,67.1
50	1515	1608	1545	1758	1760	1742	1504	1591	40- 50	1632	7993	84.4,84.4
60	229.6	787.7	286.2	890.9	346.2	860.7	226.2	765.1	50- 60	1037	9030	95.3,95.3
70	87.22	152.7	123.7	171.8	108.3	146.8	99.40	129.4	60- 70	362.3	9392	99.1,99.1
80	12.14	17.18	0	20.00	22.02	17.24	0	14.87	70- 80	80.58	9473	100,100
90	0.7638	0	0	0	0.7022	0	0	0	80- 90	3.029	9476	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): 7237 lm

%lum = 76.4%

%lamp = 76.4%

Conical surface Flux(120deg): 9030.1 lm

%lum = 95.3%

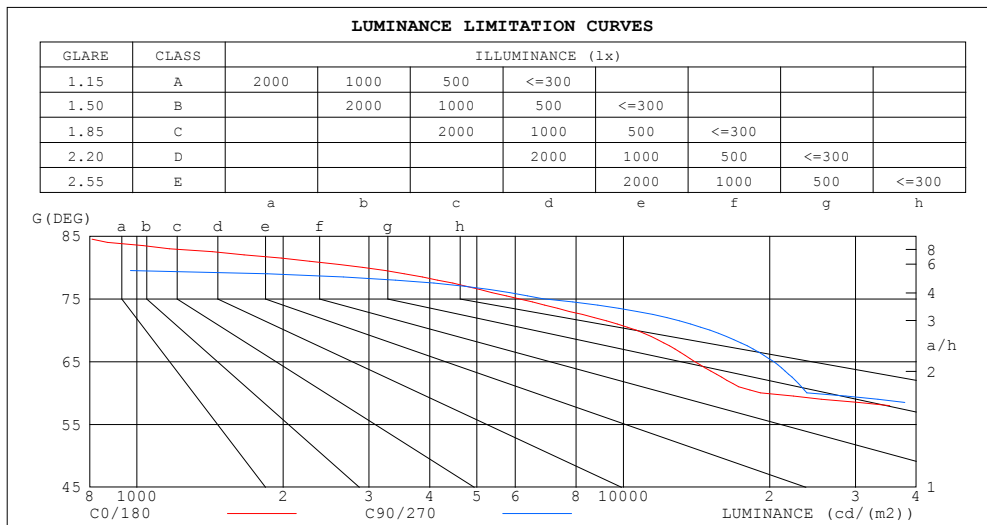
%lamp = 95.3%

H(□) Range:-90 - 90DEG
H(□) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jessy
Test Date:2024-12-17

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:7.078m [K=1.0000]
Remarks:

LUMINANCE LIMITATION CURVES

Test:U:120.02V I:0.5126A P:61.367W PF:0.9975 Freq:59.98Hz Lamp Flux:9476.09x1 lm		
NAME: LED Explosion-proof Light	TYPE:Flood Light	WEIGHT:N/A
SPEC.:60W/5000K/60°	DIM.: 190*150mm	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	737	0
80	2913	0
75	6092	6830
70	10625	15070
65	14007	20366
60	19137	23849
55	71311	66650
50	98194	100134
45	113841	128175

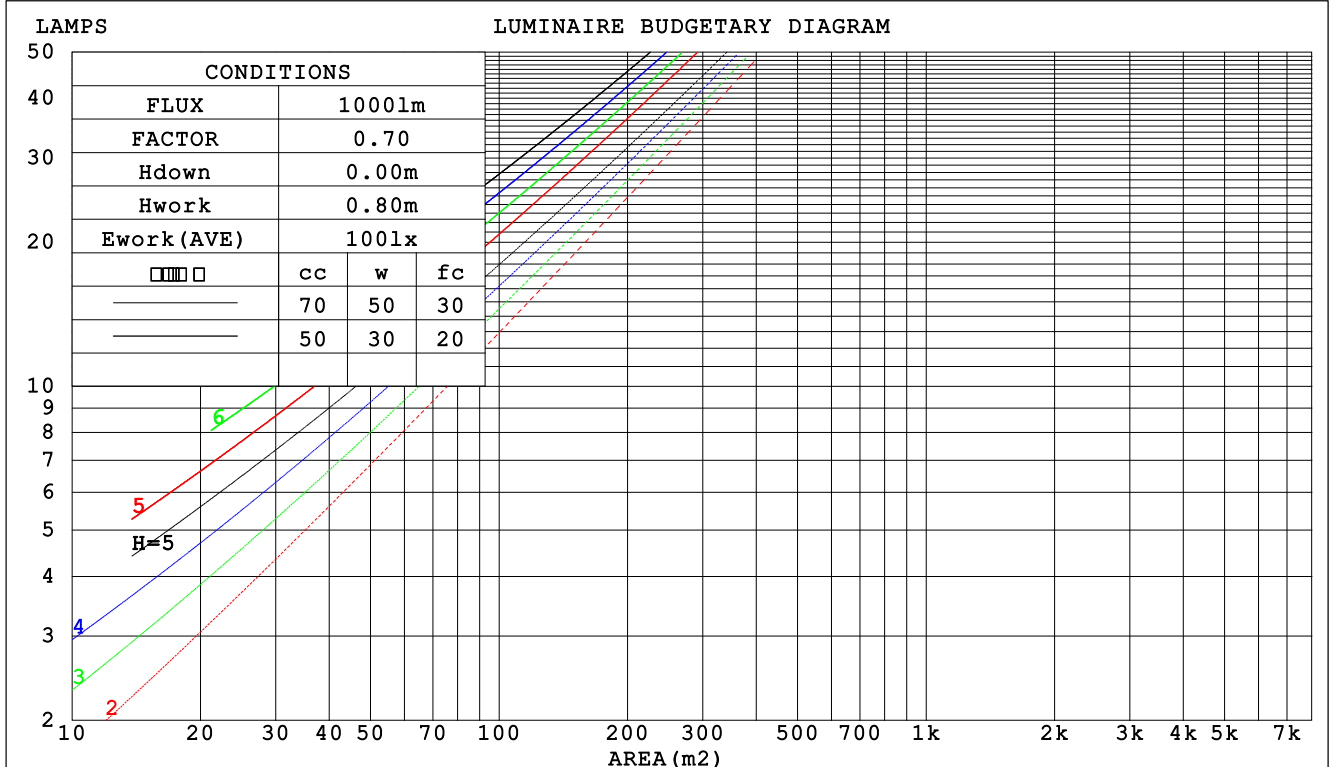
H(□) Range:-90 - 90DEG
H(□) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jessy
Test Date:2024-12-17

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:7.078m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.02V I:0.5126A P:61.367W PF:0.9975 Freq:59.98Hz Lamp Flux:9476.09x1 lm		
NAME: LED Explosion-proof Light	TYPE:Flood Light	WEIGHT:N/A
SPEC.:60W/5000K/60°	DIM.: 190*150mm	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:2024-12-17

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:7.078m [K=1.0000]
Remarks:

WEC AND CCEC

Test:U:120.02V I:0.5126A P:61.367W PF:0.9975 Freq:59.98Hz Lamp Flux:9476.09x1 lm		
NAME: LED Explosion-proof Light	TYPE:Flood Light	WEIGHT:N/A
SPEC.:60W/5000K/60°	DIM.: 190*150mm	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	.221 .126 .040	.215 .122 .039	.202 .116 .037	.190 .110 .035	.179 .104 .033	
2.0	.217 .119 .036	.211 .116 .036	.200 .111 .035	.190 .106 .033	.180 .102 .032	
3.0	.207 .110 .033	.202 .108 .033	.193 .104 .032	.184 .101 .031	.176 .097 .030	
4.0	.197 .102 .030	.192 .101 .030	.184 .098 .029	.176 .095 .029	.169 .092 .028	
5.0	.186 .095 .028	.182 .094 .027	.175 .091 .027	.168 .089 .026	.162 .086 .026	
6.0	.176 .088 .025	.173 .087 .025	.166 .085 .025	.160 .083 .024	.154 .081 .024	
7.0	.167 .082 .023	.164 .082 .023	.158 .080 .023	.152 .078 .023	.147 .076 .022	
8.0	.158 .077 .022	.155 .076 .022	.150 .075 .021	.145 .073 .021	.140 .072 .021	
9.0	.150 .073 .020	.147 .072 .020	.143 .071 .020	.138 .069 .020	.134 .068 .020	
10.0	.143 .068 .019	.140 .068 .019	.136 .067 .019	.132 .066 .019	.128 .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	.131 .098 .072	.090 .068 .051	.052 .040 .030	.017 .013 .010	
4.0	.144 .100 .066	.124 .086 .057	.085 .060 .040	.049 .035 .024	.016 .011 .008	
5.0	.136 .089 .054	.117 .077 .047	.081 .054 .033	.047 .032 .020	.015 .010 .006	
6.0	.130 .080 .045	.111 .069 .039	.077 .049 .027	.045 .029 .016	.014 .009 .005	
7.0	.123 .073 .038	.106 .063 .033	.073 .044 .023	.043 .026 .014	.014 .009 .005	
8.0	.118 .067 .032	.101 .058 .028	.070 .041 .020	.041 .024 .012	.013 .008 .004	
9.0	.112 .062 .028	.097 .054 .024	.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:2024-12-17

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:7.078m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

Test:U:120.02V I:0.5126A P:61.367W PF:0.9975 Freq:59.98Hz Lamp Flux:9476.09x1 lm										
NAME: LED Explosion-proof Light					TYPE:Flood Light			WEIGHT:N/A		
SPEC.:60W/5000K/60°					DIM.: 190*150mm			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	18.9	20.1	19.1	20.3	20.5	19.3	20.6	19.6	20.7	20.9
3H	18.8	19.9	19.1	20.1	20.3	19.4	20.6	19.7	20.8	21.0
4H	18.7	19.8	19.0	20.0	20.2	19.4	20.4	19.7	20.7	20.9
6H	18.6	19.6	18.9	19.9	20.1	19.3	20.3	19.6	20.5	20.8
8H	18.6	19.5	18.9	19.8	20.1	19.2	20.2	19.6	20.5	20.7
12H	18.5	19.4	18.9	19.7	20.0	19.2	20.1	19.5	20.4	20.7
4H 2H	19.1	20.2	19.4	20.4	20.6	19.5	20.5	19.8	20.8	21.0
3H	19.0	20.0	19.4	20.2	20.5	19.7	20.6	20.0	20.9	21.2
4H	19.0	19.8	19.3	20.1	20.4	19.6	20.5	20.0	20.8	21.1
6H	18.9	19.6	19.3	20.0	20.3	19.6	20.3	19.9	20.6	21.0
8H	18.8	19.5	19.2	19.9	20.2	19.5	20.2	19.9	20.5	20.9
12H	18.8	19.4	19.2	19.8	20.2	19.5	20.1	19.9	20.5	20.8
8H 4H	18.9	19.6	19.3	19.9	20.3	19.5	20.2	19.9	20.6	20.9
6H	18.8	19.4	19.3	19.8	20.2	19.5	20.0	19.9	20.4	20.8
8H	18.8	19.3	19.2	19.7	20.1	19.4	19.9	19.9	20.3	20.8
12H	18.7	19.1	19.2	19.6	20.1	19.4	19.8	19.8	20.2	20.7
12H 4H	18.8	19.5	19.3	19.8	20.2	19.5	20.1	19.9	20.5	20.9
6H	18.8	19.3	19.2	19.7	20.1	19.4	19.9	19.9	20.3	20.8
8H	18.7	19.1	19.2	19.6	20.1	19.4	19.8	19.8	20.2	20.7
Variations with the observer position at spacings:										
S = 1.0H	+ 1.0 / - 1.7					+ 1.0 / - 1.7				
1.5H	+ 0.3 / - 0.6					+ 0.4 / - 1.0				
2.0H	+ 1.9 / - 7.7					+ 2.2 / - 7.5				

CIE Pub.117, 9476 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 7.8)
Area: 0.024 m2

H(□) Range:-90 - 90DEG
H(□) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jessy
Test Date:2024-12-17

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:7.078m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:120.02V I:0.5126A P:61.367W PF:0.9975 Freq:59.98Hz Lamp Flux:9476.09x1 lm		
NAME: LED Explosion-proof Light	TYPE:Flood Light	WEIGHT:N/A
SPEC.:60W/5000K/60°	DIM.: 190*150mm	SERIAL No.:N/A
MFR.: Grin Industrial Co., Ltd.	SUR.:N/A	Shielding Angle:N/A

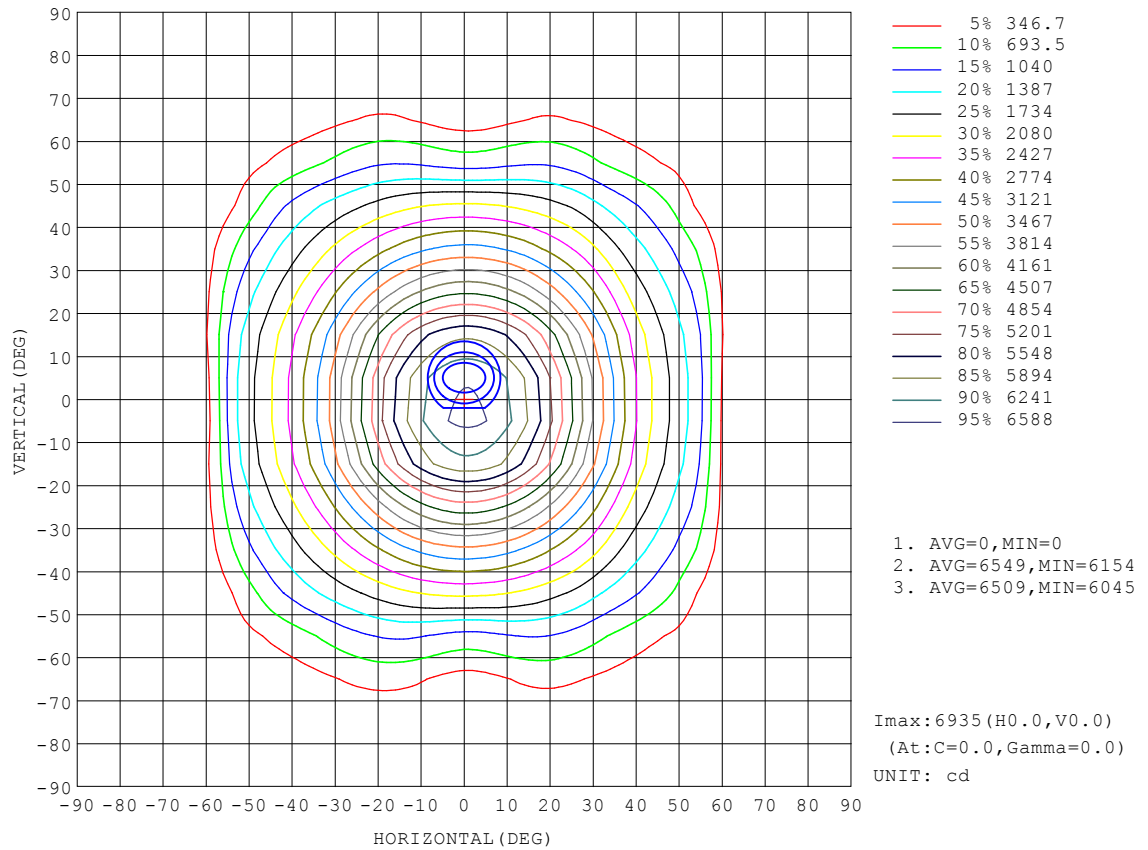
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	70	61	55	70	61	55	69	60	55	50
0.80	80	71	66	79	71	65	78	70	65	60
1.00	88	80	74	87	79	74	85	80	73	68
1.25	94	86	81	93	86	81	90	84	80	74
1.50	98	91	86	97	90	86	94	89	84	79
2.00	103	97	93	101	96	92	98	94	90	84
2.50	106	100	96	104	99	95	100	96	93	86
3.00	108	103	99	106	102	98	102	99	96	89
4.00	111	107	104	109	105	102	105	102	99	92
5.00	112	109	106	110	107	105	106	104	101	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:2024-12-17

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:7.078m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:120.02V I:0.5126A P:61.367W PF:0.9975 Freq:59.98Hz Lamp Flux:9476.09x1 lm		
NAME: LED Explosion-proof Light	TYPE:Flood Light	WEIGHT:N/A
SPEC.:60W/5000K/60°	DIM.: 190*150mm	SERIAL No.:N/A
MFR.: Grin Industrial Co., Ltd.	SUR.:N/A	Shielding Angle:N/A

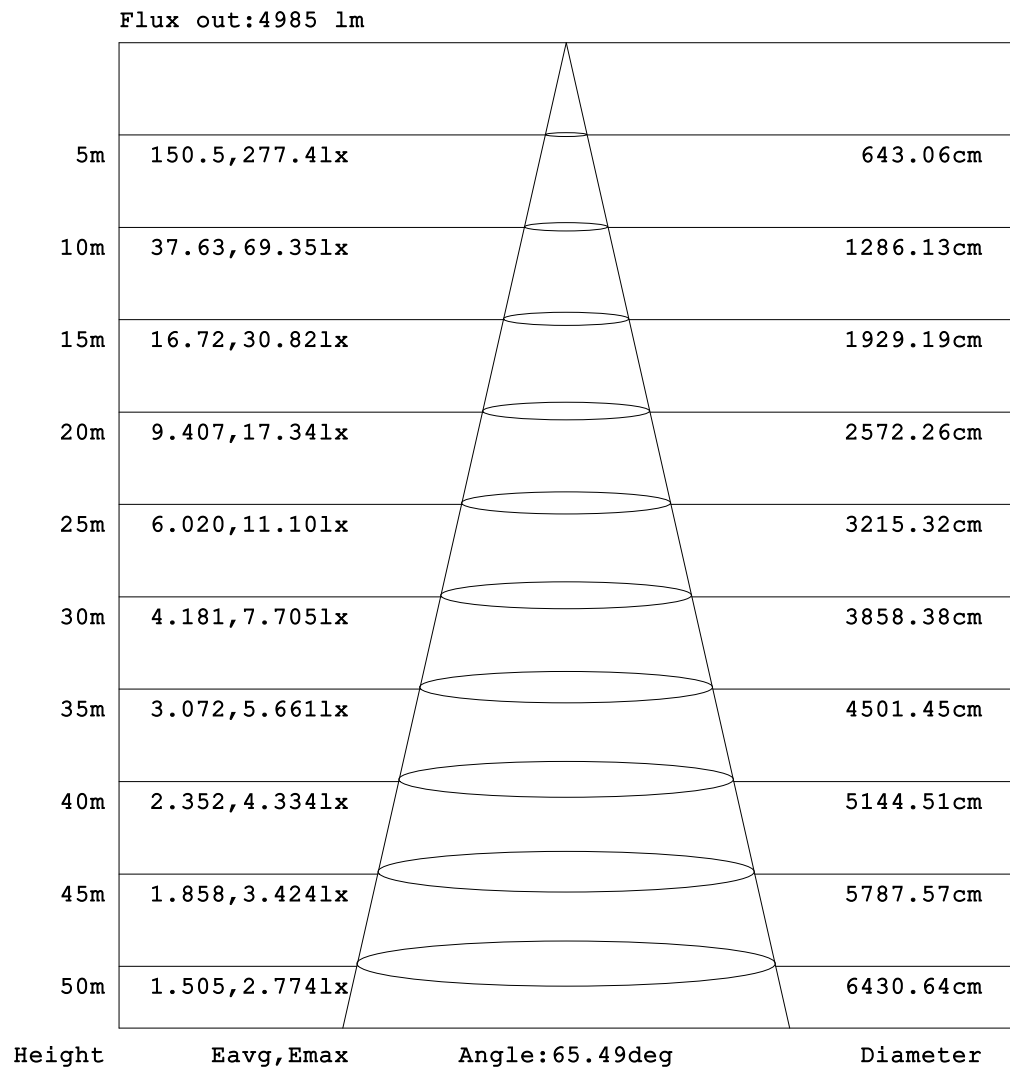


H(□) Range:-90 - 90DEG
H(□) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jessy
Test Date:2024-12-17

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:7.078m [K=1.0000]
Remarks:

AAI Figure

Test:U:120.02V I:0.5126A P:61.367W PF:0.9975 Freq:59.98Hz Lamp Flux:9476.09x1 lm		
NAME: LED Explosion-proof Light	TYPE:Flood Light	WEIGHT:N/A
SPEC.:60W/5000K/60°	DIM.: 190*150mm	SERIAL No.:N/A
MFR.: Grin Industrial Co., Ltd.	SUR.:N/A	Shielding Angle:N/A



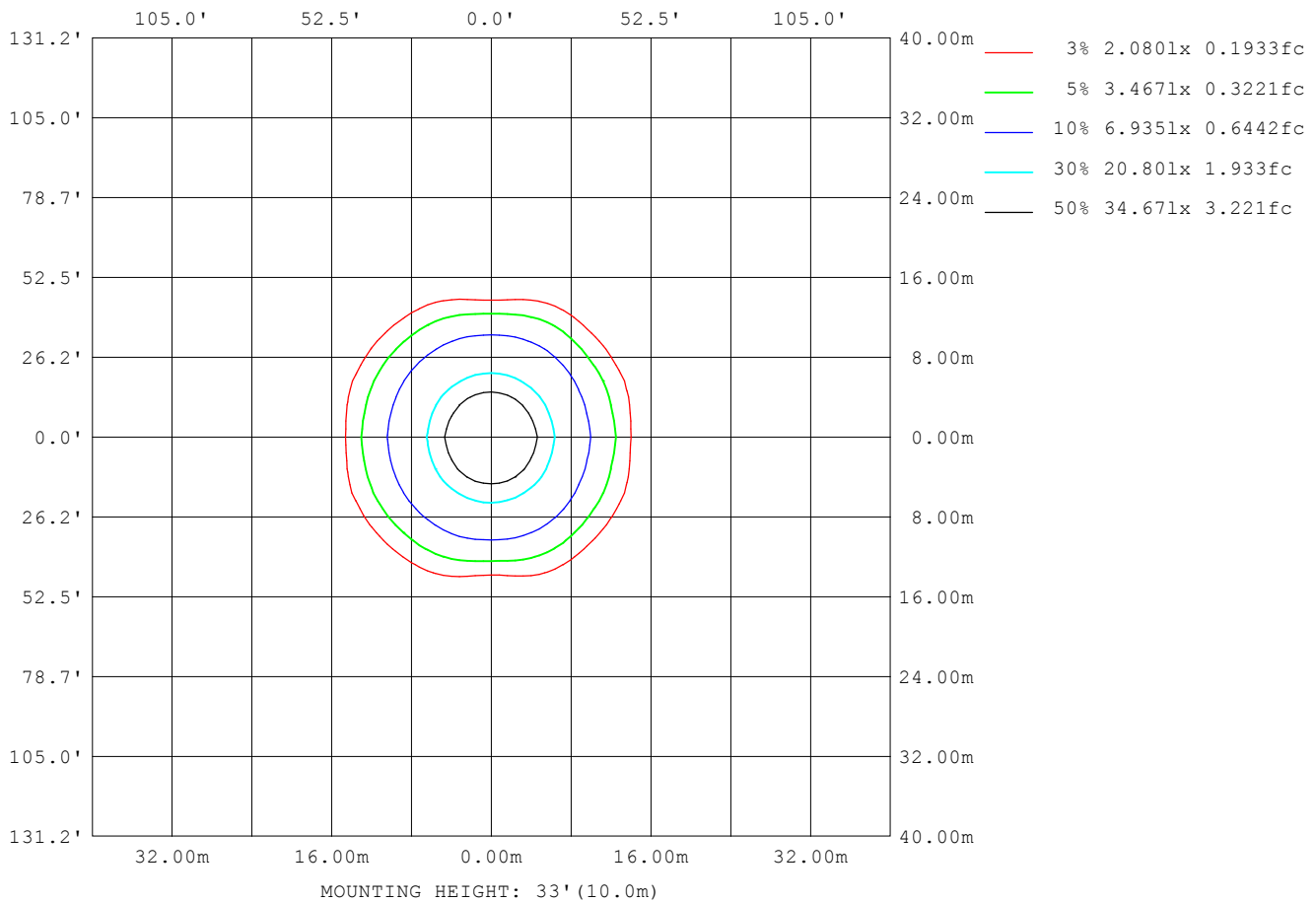
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

H(□) Range: -90 - 90DEG
H(□) Interval: 1.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Jessy
Test Date: 2024-12-17

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: 7.078m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

Test:U:120.02V I:0.5126A P:61.367W PF:0.9975 Freq:59.98Hz Lamp Flux:9476.09x1 lm		
NAME: LED Explosion-proof Light	TYPE:Flood Light	WEIGHT:N/A
SPEC.:60W/5000K/60°	DIM.: 190*150mm	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:2024-12-17

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:7.078m [K=1.0000]
Remarks:

LED Avg.L Report

Test:U:120.02V I:0.5126A P:61.367W PF:0.9975 Freq:59.98Hz Lamp Flux:9476.09x1 lm		
NAME: LED Explosion-proof Light	TYPE:Flood Light	WEIGHT:N/A
SPEC.:60W/5000K/60°	DIM.: 190*150mm	SERIAL No.:N/A
MFR.: Grin Industrial Co., Ltd.	SUR.:N/A	Shielding Angle:N/A

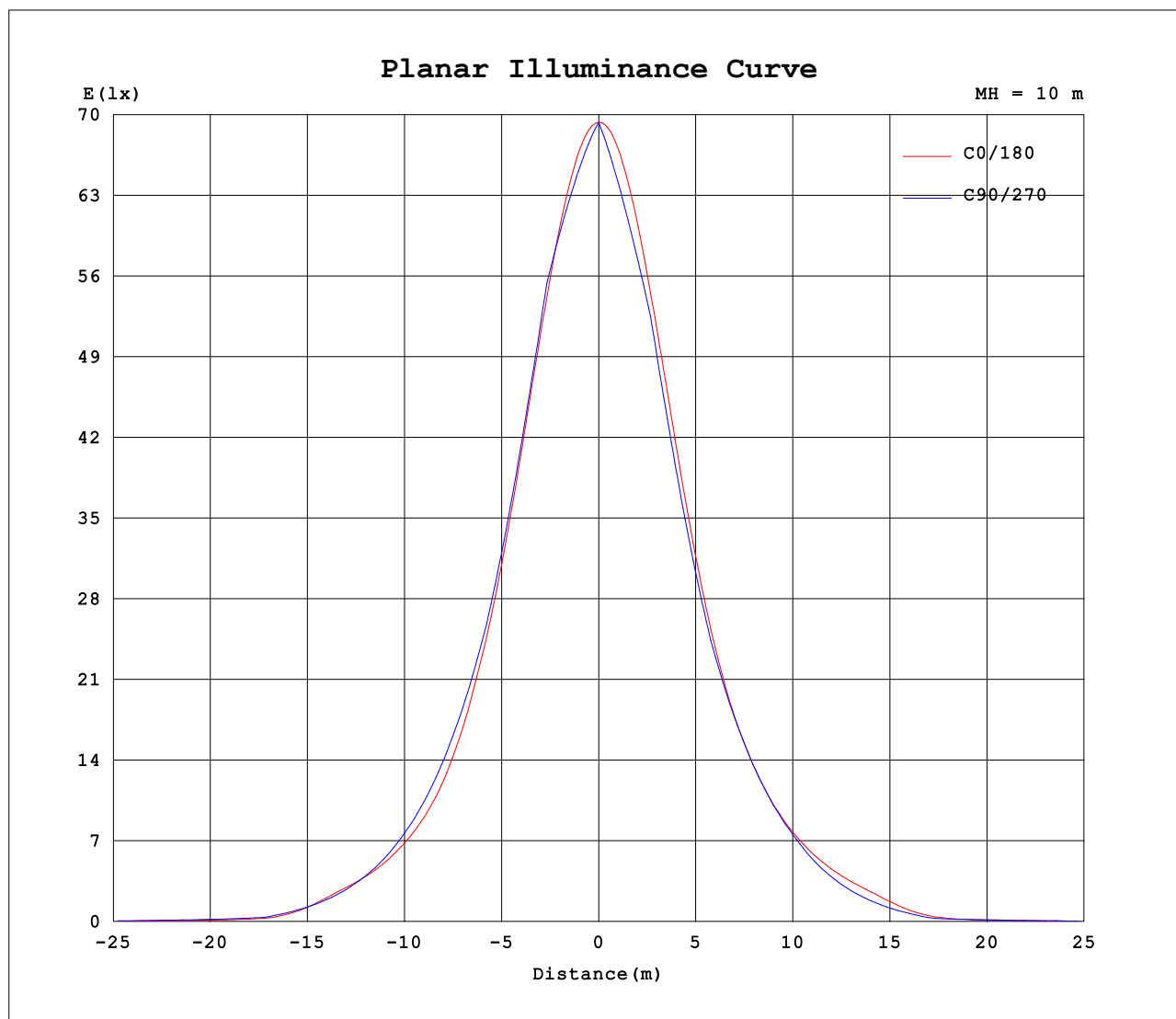
AvgL	cd/m2
L_0~180 (65) av	15297
L_0~180 (75) av	7498
L_0~180 (85) av	1369
L_90~270 (65) av	18269
L_90~270 (75) av	6316
L_90~270 (85) av	0
L_45 (65) av	40428
L_45 (75) av	11953
L_45 (85) av	0

Standard: GB/T 29293-2012

H(□) Range:-90 - 90DEG
H(□) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jessy
Test Date:2024-12-17

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:7.078m [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:2024-12-17

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:7.078m [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:7.078m [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:7.078m [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:7.078m [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:7.078m [K=1.0000]
Remarks: