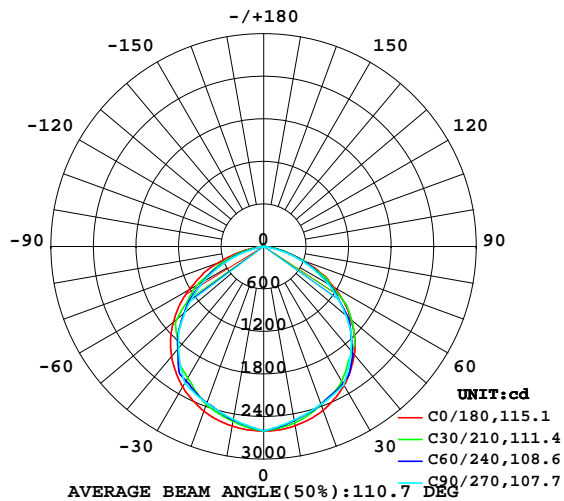


## LUMINAIRE PHOTOMETRIC TEST REPORT

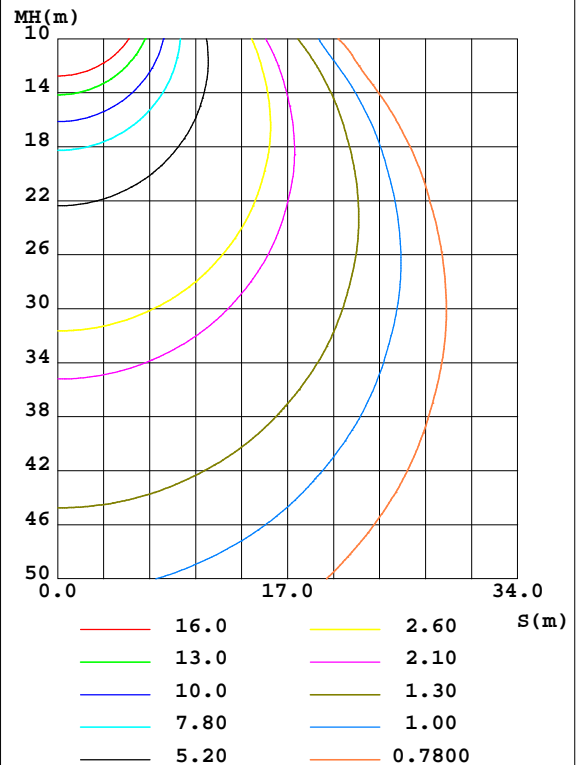
Test:U:220.09V I:0.2016A P:43.465W PF:0.9798 Freq:59.98Hz Lamp Flux:6919.77x1 lm		
NAME: LED Linear Explosion-proof Light	TYPE:Flood Light	WEIGHT:N/A
SPEC.:45W	DIM.: 1450*10mm	SERIAL No.:N/A
MFR.: Grin Industrial Co., Ltd.	SUR.:N/A	Shielding Angle:N/A

DATA OF LAMP		PHOTOMETRIC DATA Eff: 159.20 lm/W			
MODEL	GHLV-08-U	Imax(cd)	2603	S/MH(C0/180)	1.30
NOMINAL POWER(W)	45	LOR(%)	100.0	S/MH(C90/270)	1.26
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	6919.8	$\eta$ UP,DN(C0-180)	0.0,50.6
NOMINAL FLUX(lm)	6919.77	CIE CLASS	DIRECT	$\eta$ UP,DN(C180-360)	0.0,49.4
LAMPS INSIDE	1	$\eta$ up(%)	0.0	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	220	$\eta$ down(%)	100.0	CIBSE SHR MAX	1.35

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



H( $\beta$ ) Range:-90 - 90DEG  
H( $\beta$ ) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Jessy  
Test Date:2024-07-11

V(B) Range:-75 - 75DEG  
V(B) Interval: 5.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.411  
Humidity:65%  
Test Distance:6.788m [K=1.0000]  
Remarks:

## ZONAL FLUX DIAGRAM

## ZONAL FLUX DIAGRAM:

$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	$\Phi$ zone	$\Phi$ total	%lum, lamp
10	2568	2507	2486	2497	2571	2493	2477	2500	0- 10	242.7	242.7	3.51,3.51
20	2457	2373	2370	2348	2469	2338	2352	2360	10- 20	691.0	933.7	13.5,13.5
30	2267	2206	2256	2183	2288	2171	2227	2172	20- 30	1059	1993	28.8,28.8
40	1991	1980	1916	1971	2023	1961	1870	1925	30- 40	1298	3291	47.6,47.6
50	1609	1539	1514	1545	1662	1523	1451	1480	40- 50	1337	4628	66.9,66.9
60	1133	1063	1048	1057	1209	1029	970.7	999.8	50- 60	1155	5783	83.6,83.6
70	598.4	577.5	541.1	551.9	679.7	519.3	458.4	517.5	60- 70	791.0	6574	95,95
80	119.0	128.5	0	101.1	189.4	69.93	0	85.26	70- 80	324.5	6899	99.7,99.7
90	5.941	0	0	0	7.646	0	0	0	80- 90	21.10	6920	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): 3967.6 lm

%lum = 57.3%

%lamp = 57.3%

Conical surface Flux(120deg): 5783.2 lm

%lum = 83.6%

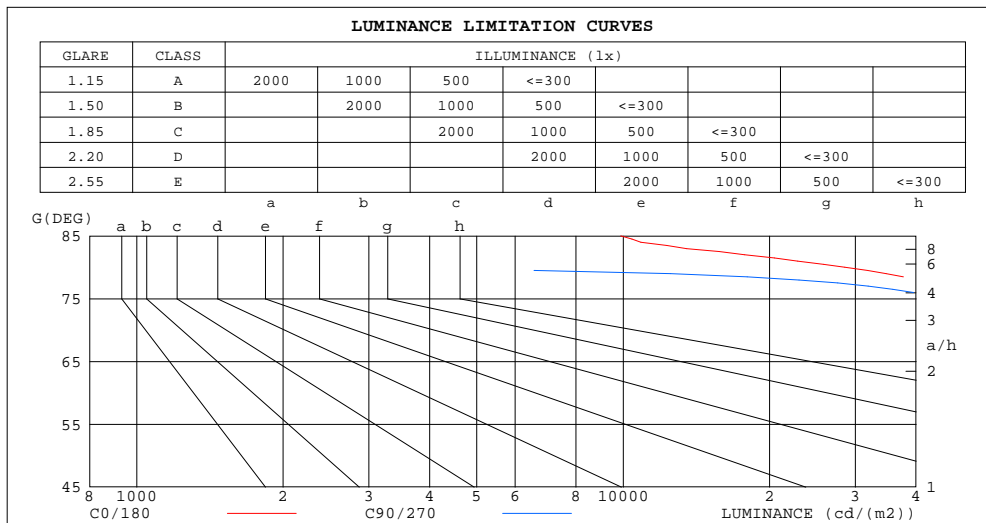
%lamp = 83.6%

H( $\beta$ ) Range:-90 - 90DEG  
H( $\beta$ ) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Jessy  
Test Date:2024-07-11

V(B) Range:-75 - 75DEG  
V(B) Interval: 5.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.411  
Humidity:65%  
Test Distance:6.788m [K=1.0000]  
Remarks:

## LUMINANCE LIMITATION CURVES

Test:U:220.09V I:0.2016A P:43.465W PF:0.9798 Freq:59.98Hz Lamp Flux:6919.77x1 lm		
NAME: LED Linear Explosion-proof Light	TYPE:Flood Light	WEIGHT:N/A
SPEC.:45W	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	9888	0
80	28554	0
75	56510	46192
70	72905	65922
65	87263	78205
60	94420	87310
55	101295	92972
50	104325	98121
45	107028	102930

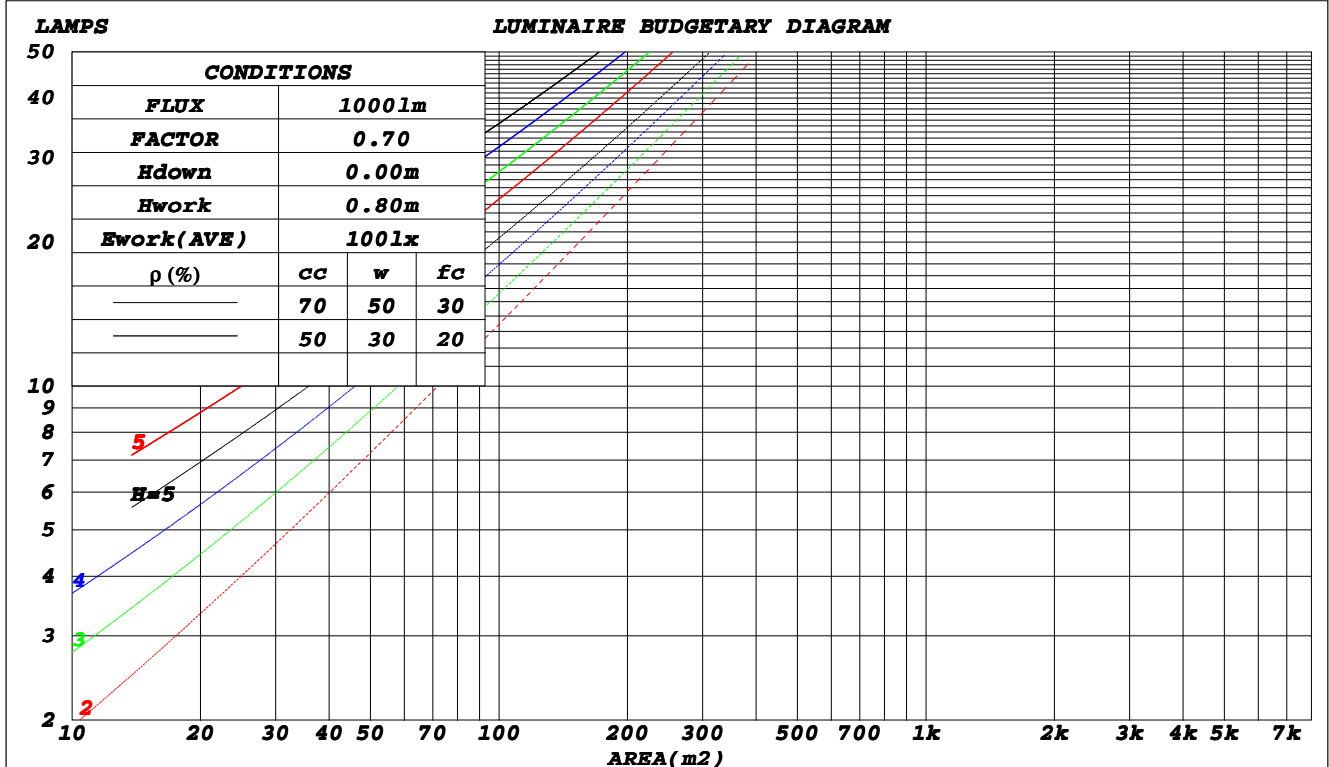
**H( $\beta$ ) Range:-90 - 90DEG**  
**H( $\beta$ ) Interval: 1.0DEG**  
**Test Speed: HIGH**  
**Temperature:25.3DEG**  
**Operators:Jessy**  
**Test Date:2024-07-11**

**V(B) Range:-75 - 75DEG**  
**V(B) Interval: 5.0DEG**  
**Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.411**  
**Humidity:65%**  
**Test Distance:6.788m [K=1.0000]**  
**Remarks:**

## CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:220.09V I:0.2016A P:43.465W PF:0.9798 Freq:59.98Hz Lamp Flux:6919.77x1 lm		
NAME: LED Linear Explosion-proof Light	TYPE:Flood Light	WEIGHT:N/A
SPEC.:45W	DIM.: 1450*10mm	SERIAL No.:N/A
MFR.: Grin Industrial Co., Ltd.	SUR.:N/A	Shielding Angle:N/A

$\rho_{cc}$	80%			70%			50%			30%			10%			0
$\rho_w$	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
$\rho_{fc}$	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio															



H( $\beta$ ) Range:-90 - 90DEG  
H( $\beta$ ) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Jessy  
Test Date:2024-07-11

V(B) Range:-75 - 75DEG  
V(B) Interval: 5.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.411  
Humidity:65%  
Test Distance:6.788m [K=1.0000]  
Remarks:

## WEC AND CCEC

Test:U:220.09V I:0.2016A P:43.465W PF:0.9798 Freq:59.98Hz Lamp Flux:6919.77x1 lm		
NAME: LED Linear Explosion-proof Light	TYPE:Flood Light	WEIGHT:N/A
SPEC.:45W	DIM.: 1450*10mm	SERIAL No.:N/A
MFR.: Grin Industrial Co., Ltd.	SUR.:N/A	Shielding Angle:N/A

$\rho_{cc}$	80%			70%			50%			30%			10%			0	
$\rho_w$	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0	
$\rho_{fc}$	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	.237	.137	.044		
2.0	.272	.149	.046	.266	.146	.045	.254	.141	.044	.244	.137	.043	.234	.132	.042		
3.0	.256	.136	.041	.251	.134	.040	.240	.130	.040	.231	.127	.039	.222	.123	.038		
4.0	.239	.124	.037	.234	.123	.036	.225	.119	.036	.217	.116	.035	.209	.114	.035		
5.0	.223	.114	.033	.219	.112	.033	.211	.110	.032	.203	.107	.032	.196	.105	.031		
6.0	.208	.104	.030	.204	.103	.030	.197	.101	.029	.190	.099	.029	.184	.097	.029		
7.0	.194	.096	.027	.191	.095	.027	.185	.093	.027	.179	.092	.027	.173	.090	.026		
8.0	.182	.089	.025	.179	.088	.025	.173	.087	.025	.168	.085	.025	.163	.084	.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	.150	.074	.021	.146	.073	.021		

$\rho_{cc}$	80%			70%			50%			30%			10%			0
$\rho_w$	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
$\rho_{fc}$	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	.153	.134	.118	.104	.092	.081	.060	.053	.047	.019	.017	.015	
2.0	.170	.132	.100	.145	.114	.087	.100	.079	.061	.057	.046	.035	.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	.121	.071	.035	.083	.050	.025	.048	.029	.015	.016	.010	.005	
7.0	.134	.075	.034	.115	.065	.029	.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	.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( $\beta$ ) Range:-90 - 90DEG**  
**H( $\beta$ ) Interval: 1.0DEG**  
**Test Speed: HIGH**  
**Temperature:25.3DEG**  
**Operators:Jessy**  
**Test Date:2024-07-11**

**V(B) Range:-75 - 75DEG**  
**V(B) Interval: 5.0DEG**  
**Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.411**  
**Humidity:65%**  
**Test Distance:6.788m [K=1.0000]**  
**Remarks:**

UGR(Unified Glare Rating) Table

Test:U:220.09V I:0.2016A P:43.465W PF:0.9798 Freq:59.98Hz Lamp Flux:6919.77x1 lm										
NAME: LED Linear Explosion-proof Light					TYPE:Flood Light			WEIGHT:N/A		
SPEC.:45W					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	22.4	23.8	22.6	24.0	24.2	22.0	23.5	22.3	23.7	23.9
3H	23.6	25.0	23.9	25.2	25.5	23.1	24.5	23.4	24.7	24.9
4H	24.0	25.3	24.3	25.6	25.8	23.4	24.7	23.7	24.9	25.2
6H	24.2	25.4	24.5	25.6	25.9	23.3	24.5	23.7	24.8	25.1
8H	24.1	25.3	24.5	25.6	25.9	23.3	24.5	23.6	24.7	25.0
12H	24.1	25.2	24.5	25.5	25.8	23.2	24.4	23.6	24.6	24.9
4H 2H	22.8	24.1	23.1	24.4	24.6	22.5	23.8	22.8	24.1	24.3
3H	24.3	25.4	24.6	25.7	26.0	23.8	24.9	24.1	25.2	25.5
4H	24.7	25.7	25.1	26.1	26.4	24.1	25.2	24.5	25.5	25.8
6H	25.0	25.9	25.4	26.2	26.6	24.1	25.0	24.5	25.4	25.8
8H	25.0	25.8	25.4	26.2	26.5	24.1	24.9	24.5	25.3	25.7
12H	25.0	25.7	25.4	26.1	26.5	24.1	24.8	24.5	25.2	25.6
8H 4H	24.8	25.7	25.2	26.0	26.4	24.3	25.1	24.7	25.5	25.9
6H	25.1	25.8	25.6	26.2	26.6	24.3	25.0	24.8	25.4	25.8
8H	25.2	25.8	25.6	26.2	26.7	24.3	24.9	24.7	25.3	25.8
12H	25.2	25.7	25.7	26.1	26.6	24.2	24.8	24.7	25.2	25.7
12H 4H	24.8	25.6	25.2	25.9	26.3	24.3	25.0	24.7	25.4	25.8
6H	25.1	25.7	25.6	26.1	26.6	24.3	24.9	24.8	25.3	25.8
8H	25.2	25.7	25.6	26.1	26.6	24.3	24.8	24.7	25.2	25.7
Variations with the observer position at spacings:										
S = 1.0H	+ 0.4 / - 0.3					+ 0.3 / - 0.3				
1.5H	+ 0.5 / - 0.5					+ 0.2 / - 0.4				
2.0H	+ 0.4 / - 0.5					+ 0.4 / - 0.4				

CIE Pub.117, 6920 lm Total Lamp Luminous Flux Correct ( $8\log(F/F_0) = 6.7$ )  
Area: 0.024 m<sup>2</sup>

H( $\beta$ ) Range:-90 - 90DEG  
H( $\beta$ ) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Jessy  
Test Date:2024-07-11

V(B) Range:-75 - 75DEG  
V(B) Interval: 5.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.411  
Humidity:65%  
Test Distance:6.788m [K=1.0000]  
Remarks:

## UTILIZATION FACTORS TABLE

Test:U:220.09V I:0.2016A P:43.465W PF:0.9798 Freq:59.98Hz Lamp Flux:6919.77x1 lm		
NAME: LED Linear Explosion-proof Light	TYPE:Flood Light	WEIGHT:N/A
SPEC.:45W	DIM.: 1450*10mm	SERIAL No.:N/A
MFR.: Grin Industrial Co., Ltd.	SUR.:N/A	Shielding Angle:N/A

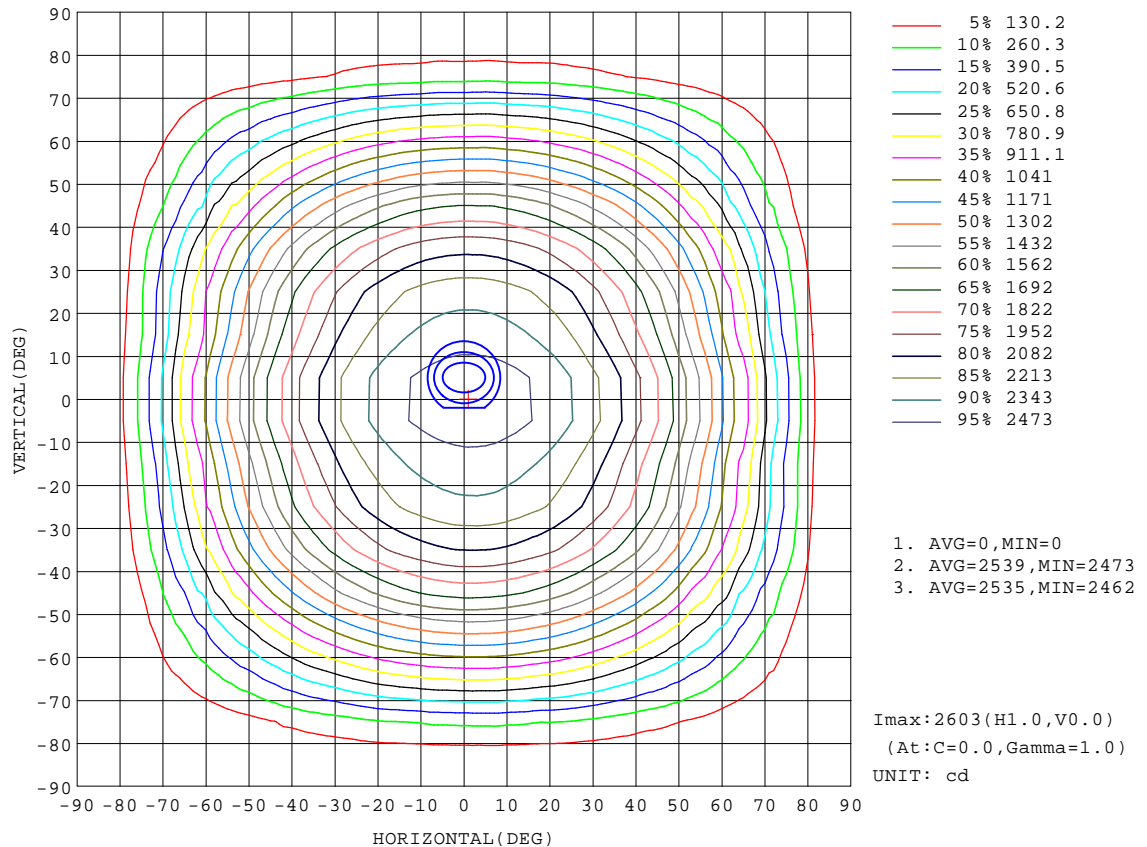
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	59	48	41	58	47	41	57	47	40	34
0.80	69	58	51	68	58	51	67	57	50	44
1.00	78	67	60	77	67	60	75	68	60	53
1.25	85	75	68	84	74	68	81	73	67	60
1.50	90	81	74	88	80	74	86	78	73	65
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	97	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		

**$H(\beta)$  Range:-90 - 90DEG**  
 **$H(\beta)$  Interval: 1.0DEG**  
**Test Speed: HIGH**  
**Temperature:25.3DEG**  
**Operators:Jessy**  
**Test Date:2024-07-11**

**$V(B)$  Range:-75 - 75DEG**  
 **$V(B)$  Interval: 5.0DEG**  
**Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.411**  
**Humidity:65%**  
**Test Distance:6.788m [K=1.0000]**  
**Remarks:**

## ISOCANDELA DIAGRAM

Test:U:220.09V I:0.2016A P:43.465W PF:0.9798 Freq:59.98Hz Lamp Flux:6919.77x1 lm		
NAME: LED Linear Explosion-proof Light	TYPE:Flood Light	WEIGHT:N/A
SPEC.:45W	DIM.: 1450*10mm	SERIAL No.:N/A
MFR.: Grin Industrial Co., Ltd.	SUR.:N/A	Shielding Angle:N/A



**H( $\beta$ ) Range: -90 - 90DEG**  
**H( $\beta$ ) Interval: 1.0DEG**  
**Test Speed: HIGH**  
**Temperature: 25.3DEG**  
**Operators: Jessie**  
**Test Date: 2024-07-11**

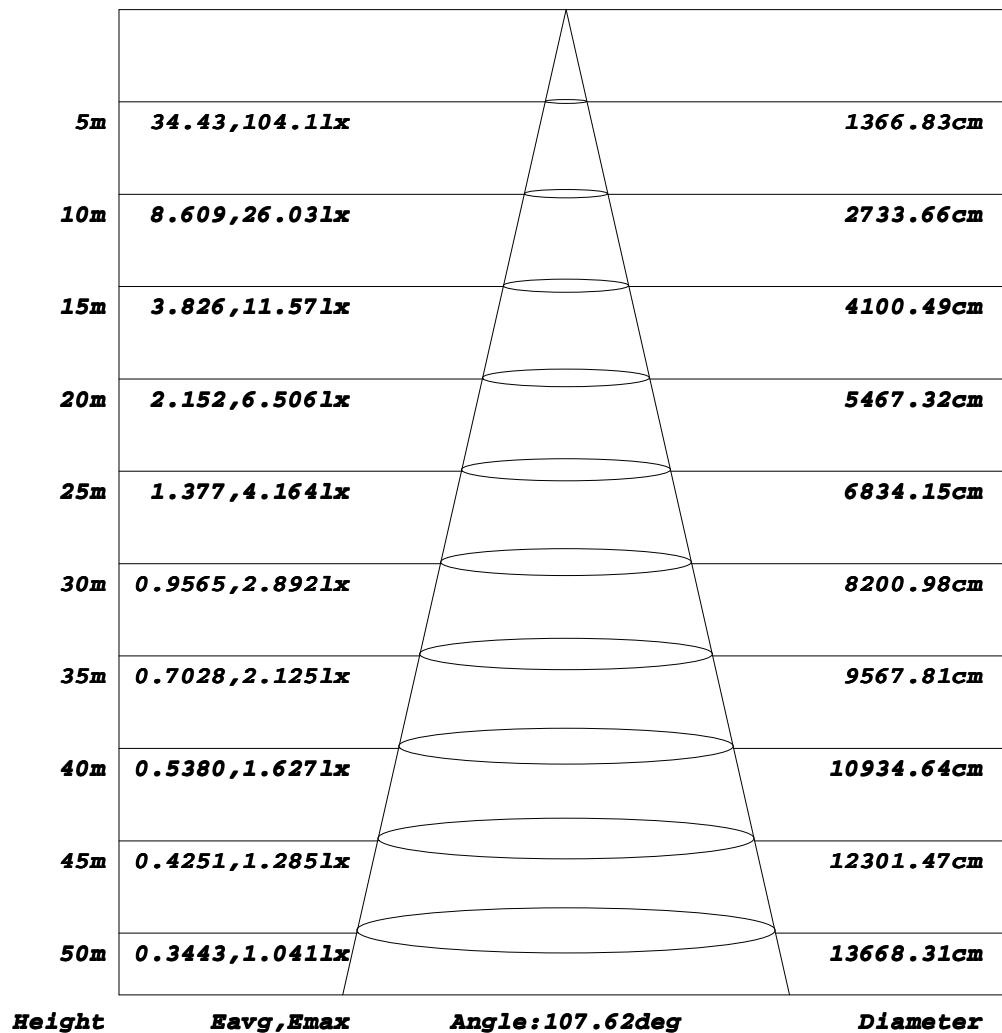
**V(B) Range: -75 - 75DEG**  
**V(B) Interval: 5.0DEG**  
**Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.00.411**  
**Humidity: 65%**  
**Test Distance: 6.788m [K=1.0000]**  
**Remarks:**



## AAI Figure

Test:U:220.09V I:0.2016A P:43.465W PF:0.9798 Freq:59.98Hz Lamp Flux:6919.77x1 lm		
NAME: LED Linear Explosion-proof Light	TYPE:Flood Light	WEIGHT:N/A
SPEC.:45W	DIM.: 1450*10mm	SERIAL No.:N/A
MFR.: Grin Industrial Co., Ltd.	SUR.:N/A	Shielding Angle:N/A

Flux out:5124 lm



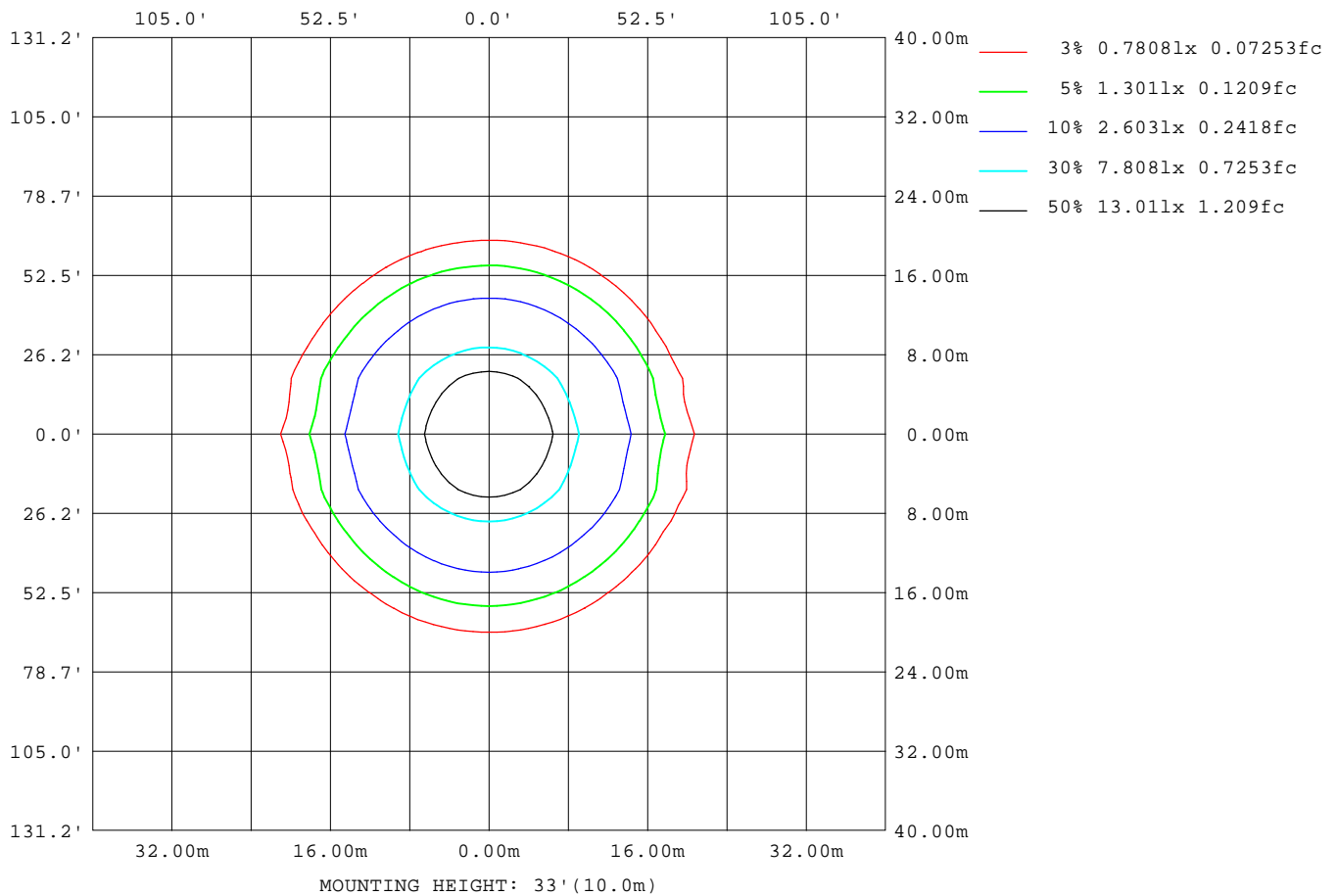
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

H( $\beta$ ) Range: -90 - 90DEG  
H( $\beta$ ) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: Jessy  
Test Date: 2024-07-11

V(B) Range: -75 - 75DEG  
V(B) Interval: 5.0DEG  
Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.00.411  
Humidity: 65%  
Test Distance: 6.788m [K=1.0000]  
Remarks:

## ISOLUX DIAGRAM

Test:U:220.09V I:0.2016A P:43.465W PF:0.9798 Freq:59.98Hz Lamp Flux:6919.77x1 lm		
NAME: LED Linear Explosion-proof Light	TYPE:Flood Light	WEIGHT:N/A
SPEC.:45W	DIM.: 1450*10mm	SERIAL No.:N/A
MFR.: Grin Industrial Co., Ltd.	SUR.:N/A	Shielding Angle:N/A



**H( $\beta$ ) Range:-90 - 90DEG**  
**H( $\beta$ ) Interval: 1.0DEG**  
**Test Speed: HIGH**  
**Temperature:25.3DEG**  
**Operators:Jessy**  
**Test Date:2024-07-11**

**V(B) Range:-75 - 75DEG**  
**V(B) Interval: 5.0DEG**  
**Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.411**  
**Humidity:65%**  
**Test Distance:6.788m [K=1.0000]**  
**Remarks:**

## LED Avg.L Report

Test:U:220.09V I:0.2016A P:43.465W PF:0.9798 Freq:59.98Hz Lamp Flux:6919.77x1 lm		
NAME: LED Linear Explosion-proof Light	TYPE:Flood Light	WEIGHT:N/A
SPEC.:45W	DIM.: 1450*10mm	SERIAL No.:N/A
MFR.: Grin Industrial Co., Ltd.	SUR.:N/A	Shielding Angle:N/A

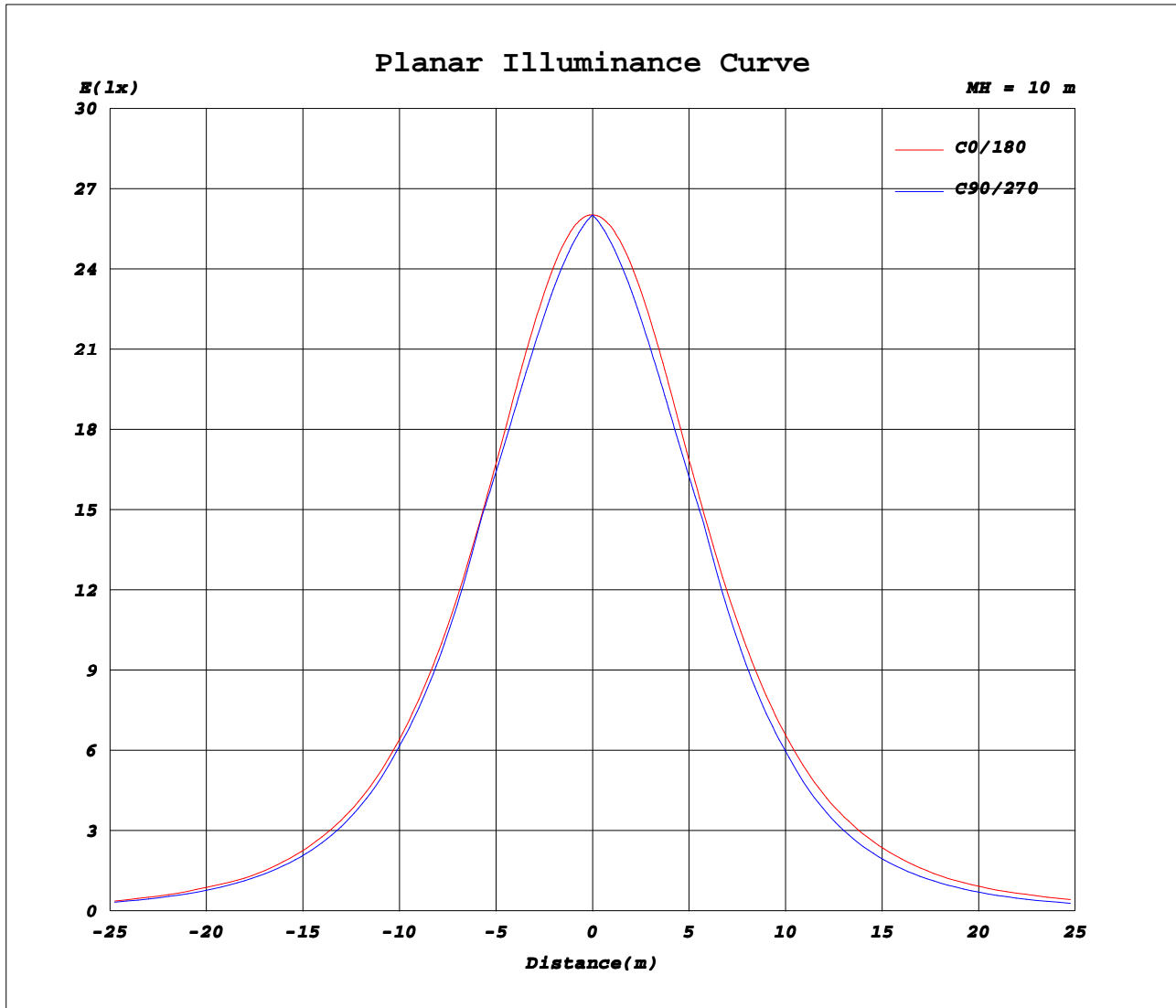
AvgL	cd/m2
L_0~180(65)av	91022
L_0~180(75)av	63346
L_0~180(85)av	13829
L_90~270(65)av	74301
L_90~270(75)av	39283
L_90~270(85)av	0
L_45(65)av	77298
L_45(75)av	50154
L_45(85)av	0

Standard: GB/T 29293-2012

**H( $\beta$ ) Range:-90 - 90DEG**  
**H( $\beta$ ) Interval: 1.0DEG**  
**Test Speed: HIGH**  
**Temperature:25.3DEG**  
**Operators:Jessy**  
**Test Date:2024-07-11**

**V(B) Range:-75 - 75DEG**  
**V(B) Interval: 5.0DEG**  
**Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.411**  
**Humidity:65%**  
**Test Distance:6.788m [K=1.0000]**  
**Remarks:**

## Planar Illuminance Curve



H( $\beta$ ) Range:-90 - 90DEG  
H( $\beta$ ) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Jessy  
Test Date:2024-07-11

V(B) Range:-75 - 75DEG  
V(B) Interval: 5.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.411  
Humidity:65%  
Test Distance:6.788m [K=1.0000]  
Remarks:

Photometric Data Table [cd]

G/C	0.0	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0	45.0
0.0	2603	2603	2603	2603	2603	2603	2603	2603	2603	2603
2.5	2601	2599	2597	2594	2592	2590	2587	2585	2584	2582
5.0	2596	2591	2587	2582	2578	2574	2570	2566	2563	2560
7.5	2584	2577	2571	2566	2561	2555	2550	2546	2541	2537
10.0	2568	2560	2553	2546	2539	2533	2528	2520	2513	2507
12.5	2546	2537	2529	2522	2515	2507	2496	2486	2478	2471
15.0	2521	2511	2502	2494	2485	2470	2458	2447	2437	2435
17.5	2492	2482	2472	2464	2448	2431	2416	2406	2405	2404
20.0	2457	2447	2439	2428	2405	2386	2373	2373	2372	2373
22.5	2416	2407	2400	2382	2356	2335	2336	2338	2341	2334
25.0	2368	2361	2357	2328	2299	2291	2297	2302	2293	2287
27.5	2319	2312	2306	2268	2237	2246	2256	2248	2240	2239
30.0	2267	2260	2246	2202	2187	2199	2198	2186	2185	2206
32.5	2205	2202	2180	2129	2133	2150	2130	2120	2147	2173
35.0	2137	2137	2102	2051	2074	2073	2055	2077	2109	2122
37.5	2063	2066	2018	1983	2013	1990	1993	2034	2052	2055
40.0	1991	1993	1930	1914	1927	1900	1942	1979	1979	1980
42.5	1909	1920	1837	1844	1835	1835	1893	1897	1898	1891
45.0	1816	1838	1733	1771	1736	1781	1814	1812	1806	1799
47.5	1717	1736	1642	1677	1641	1726	1722	1719	1715	1669
50.0	1609	1623	1549	1563	1574	1625	1621	1626	1578	1539
52.5	1504	1504	1455	1438	1507	1507	1520	1493	1440	1447
55.0	1394	1381	1365	1319	1412	1396	1410	1339	1344	1351
57.5	1270	1245	1260	1240	1283	1295	1245	1228	1245	1202
60.0	1133	1097	1112	1166	1152	1160	1099	1135	1085	1063
62.5	1027	960.4	968.0	1047	1052	990.1	1003	975.8	946.4	958.6
65.0	885.1	843.3	849.4	925.3	919.5	872.2	856.3	827.9	845.5	831.3
67.5	750.8	723.4	767.5	791.4	743.6	777.3	704.2	728.8	711.5	682.0
70.0	598.4	606.2	681.1	680.9	635.9	602.8	612.3	590.9	564.8	577.5
72.5	464.3	492.3	500.7	471.6	481.0	497.5	480.1	458.2	475.5	468.7
75.0	351.0	346.9	412.6	383.1	359.7	370.8	356.6	373.4	359.0	342.4
77.5	219.6	244.1	278.6	253.2	266.9	255.9	270.1	252.2	241.7	233.2
80.0	119.0	185.7	190.1	192.6	170.7	170.6	152.7	153.2	144.5	128.5
82.5	49.42	94.99	91.06	94.70	91.63	78.87	73.51	62.62	42.34	17.40
85.0	20.68	47.17	38.15	35.32	30.23	16.82	0	0	0	0
87.5	9.275	12.54	11.25	0	0	0	0	0	0	0
90.0	5.941	0	0	0	0	0	0	0	0	0

G/C	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0	90.0	95.0
0.0	2603	2603	2603	2603	2603	2603	2603	2603	2603	2603
2.5	2580	2579	2577	2576	2575	2574	2574	2573	2573	2573
5.0	2557	2555	2552	2550	2548	2546	2545	2544	2543	2543
7.5	2532	2528	2525	2522	2519	2517	2516	2515	2515	2514
10.0	2501	2497	2494	2491	2489	2488	2486	2486	2486	2487
12.5	2466	2463	2462	2462	2460	2459	2458	2458	2457	2456
15.0	2435	2434	2434	2434	2433	2431	2430	2429	2428	2425
17.5	2405	2406	2405	2404	2402	2401	2400	2400	2399	2398
20.0	2372	2368	2367	2367	2368	2369	2370	2370	2370	2371
22.5	2329	2326	2327	2332	2337	2341	2342	2342	2341	2340
25.0	2285	2290	2298	2306	2312	2315	2315	2314	2312	2309
27.5	2252	2262	2272	2279	2282	2285	2285	2285	2284	2282
30.0	2223	2233	2234	2238	2244	2251	2254	2256	2256	2255
32.5	2184	2188	2192	2197	2190	2185	2179	2173	2170	2170
35.0	2127	2137	2127	2115	2108	2102	2096	2090	2085	2083
37.5	2062	2054	2044	2032	2021	2013	2007	2003	2001	2000
40.0	1974	1969	1951	1933	1923	1918	1917	1916	1916	1918
42.5	1887	1860	1842	1830	1828	1830	1832	1832	1832	1830
45.0	1764	1742	1739	1743	1746	1748	1750	1748	1747	1742
47.5	1638	1646	1654	1660	1651	1640	1635	1632	1630	1628
50.0	1547	1559	1551	1534	1523	1516	1514	1513	1514	1514
52.5	1457	1433	1414	1402	1400	1400	1400	1398	1397	1395
55.0	1315	1291	1289	1291	1289	1289	1288	1283	1280	1275
57.5	1173	1177	1183	1184	1175	1170	1168	1166	1164	1160
60.0	1067	1072	1063	1055	1049	1046	1046	1048	1048	1045
62.5	951.9	937.9	928.8	926.2	925.0	923.4	924.6	922.9	920.5	917.0
65.0	810.5	803.4	808.1	810.3	805.7	803.2	801.9	797.2	793.2	788.4
67.5	688.8	694.2	696.2	692.9	682.2	675.3	673.1	670.9	667.2	663.7
70.0	584.4	578.0	569.2	562.3	553.1	543.7	543.6	544.6	541.1	539.1
72.5	456.9	444.9	438.2	435.7	427.7	419.8	418.9	417.7	414.0	411.5
75.0	330.9	326.4	323.2	318.6	305.9	298.3	294.6	290.8	286.9	284.0
77.5	225.2	216.4	204.8	191.0	172.8	160.5	152.3	146.7	143.5	143.2
80.0	110.0	89.85	70.62	51.30	33.11	18.90	8.554	2.156	0	2.104
82.5	0	0	0	0	0	0	0	0	0	0
85.0	0	0	0	0	0	0	0	0	0	0

H(β) Range:-90 - 90DEG

H(β) Interval: 1.0DEG

Test Speed: HIGH

Temperature:25.3DEG

Operators:Jessy

Test Date:2024-07-11

V(B) Range:-75 - 75DEG

V(B) Interval: 5.0DEG

Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.411

Humidity:65%

Test Distance:6.788m [K=1.0000]

Remarks:

Photometric Data Table [cd]

87.5	0	0	0	0	0	0	0	0	0	0
90.0	0	0	0	0	0	0	0	0	0	0
G/C	100.0	105.0	110.0	115.0	120.0	125.0	130.0	135.0	140.0	145.0
0.0	2603	2603	2603	2603	2603	2603	2603	2603	2603	2603
2.5	2573	2573	2574	2574	2575	2576	2578	2579	2581	2583
5.0	2542	2543	2543	2544	2546	2548	2550	2553	2556	2560
7.5	2514	2515	2515	2517	2518	2520	2521	2524	2528	2533
10.0	2487	2488	2488	2490	2491	2493	2495	2497	2500	2504
12.5	2456	2456	2457	2459	2462	2465	2469	2470	2473	2476
15.0	2423	2422	2423	2423	2425	2428	2432	2438	2445	2447
17.5	2396	2395	2392	2390	2387	2387	2391	2396	2403	2414
20.0	2370	2368	2365	2362	2359	2354	2349	2348	2355	2366
22.5	2338	2335	2333	2332	2330	2325	2317	2309	2302	2313
25.0	2303	2298	2294	2290	2289	2288	2287	2276	2266	2256
27.5	2277	2269	2260	2250	2243	2240	2239	2242	2229	2215
30.0	2252	2243	2233	2222	2208	2193	2184	2183	2188	2174
32.5	2170	2173	2181	2195	2180	2162	2138	2121	2122	2131
35.0	2079	2080	2085	2097	2113	2133	2104	2073	2051	2056
37.5	1997	1994	1994	1995	2008	2027	2055	2035	1994	1973
40.0	1916	1914	1913	1912	1909	1914	1937	1971	1950	1901
42.5	1827	1825	1827	1830	1826	1822	1817	1846	1887	1853
45.0	1735	1729	1726	1726	1733	1737	1730	1722	1756	1806
47.5	1626	1625	1622	1618	1619	1628	1645	1634	1621	1676
50.0	1515	1515	1514	1510	1507	1508	1522	1545	1530	1530
52.5	1395	1396	1400	1405	1401	1398	1394	1409	1439	1420
55.0	1273	1271	1272	1276	1284	1293	1287	1273	1297	1326
57.5	1159	1155	1150	1144	1149	1159	1179	1170	1152	1189
60.0	1048	1045	1042	1036	1027	1018	1034	1057	1051	1032
62.5	919.8	920.1	924.3	929.3	921.5	909.3	901.4	907.8	933.3	929.3
65.0	788.3	787.5	791.6	793.1	796.8	800.0	797.1	783.3	778.6	816.4
67.5	664.7	662.1	664.7	660.9	658.8	665.0	678.7	684.4	662.6	652.4
70.0	542.7	540.1	545.4	546.4	541.3	538.9	543.5	551.9	559.4	542.3
72.5	413.1	413.6	422.5	427.8	429.8	430.4	434.3	427.0	427.6	436.0
75.0	282.2	285.5	296.1	299.2	301.9	312.9	326.8	330.5	320.9	315.4
77.5	145.3	152.3	164.8	171.4	177.0	188.5	201.7	215.2	225.1	228.4
80.0	8.160	17.95	31.50	45.91	60.85	77.78	92.13	101.1	108.5	128.3
82.5	0	0	0	0	0	0	0	13.66	30.20	42.45
85.0	0	0	0	0	0	0	0	0	0	0
87.5	0	0	0	0	0	0	0	0	0	0
90.0	0	0	0	0	0	0	0	0	0	0
G/C	150.0	155.0	160.0	165.0	170.0	175.0	180.0	185.0	190.0	195.0
0.0	2603	2603	2603	2603	2603	2603	2603	2603	2603	2603
2.5	2585	2588	2590	2592	2595	2598	2600	2598	2595	2592
5.0	2564	2568	2573	2578	2584	2589	2595	2589	2583	2577
7.5	2538	2544	2551	2559	2567	2576	2585	2575	2566	2557
10.0	2507	2516	2525	2535	2546	2558	2571	2558	2545	2533
12.5	2479	2483	2493	2506	2520	2535	2552	2535	2518	2503
15.0	2450	2453	2458	2472	2490	2510	2531	2509	2488	2469
17.5	2418	2419	2422	2431	2453	2477	2503	2476	2450	2427
20.0	2379	2383	2385	2388	2409	2438	2469	2437	2407	2384
22.5	2327	2345	2345	2345	2360	2394	2432	2392	2357	2341
25.0	2270	2289	2301	2299	2305	2344	2387	2342	2301	2294
27.5	2207	2227	2254	2250	2248	2290	2340	2288	2245	2244
30.0	2155	2157	2187	2197	2190	2228	2288	2227	2187	2191
32.5	2106	2081	2110	2139	2128	2160	2227	2158	2124	2135
35.0	2057	2023	2026	2071	2062	2086	2163	2084	2058	2065
37.5	1986	1966	1935	1985	1993	2009	2095	2007	1989	1979
40.0	1897	1909	1864	1893	1921	1924	2023	1923	1918	1888
42.5	1805	1826	1797	1790	1844	1833	1945	1832	1842	1787
45.0	1742	1724	1730	1680	1764	1731	1862	1729	1762	1678
47.5	1689	1615	1651	1584	1655	1633	1766	1629	1650	1577
50.0	1603	1544	1529	1502	1533	1535	1662	1529	1525	1494
52.5	1445	1479	1401	1422	1407	1435	1561	1428	1394	1414
55.0	1294	1368	1301	1335	1270	1329	1452	1322	1259	1328
57.5	1199	1199	1233	1193	1129	1218	1337	1213	1120	1191
60.0	1087	1060	1138	1042	1036	1102	1209	1097	1031	1051
62.5	921.0	968.5	954.5	939.4	947.5	992.0	1082	986.1	946.6	957.4
65.0	798.1	829.1	808.9	880.4	859.6	878.4	961.4	871.7	861.8	905.2
67.5	701.9	667.6	731.0	746.0	696.5	715.7	849.8	725.5	714.9	773.0
70.0	546.1	582.2	564.5	536.4	526.2	540.2	679.7	534.8	552.7	566.7
72.5	435.1	432.7	434.8	462.0	472.6	394.2	549.0	393.8	507.6	487.4
75.0	333.5	324.0	334.8	312.3	330.0	329.0	435.9	332.4	368.2	315.9
77.5	219.2	230.4	220.3	245.9	228.3	234.2	302.3	245.9	257.9	247.0

H( $\beta$ ) Range:-90 - 90DEGH( $\beta$ ) Interval: 1.0DEG

Test Speed: HIGH

Temperature:25.3DEG

Operators:Jessy

Test Date:2024-07-11

V(B) Range:-75 - 75DEG

V(B) Interval: 5.0DEG

Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.411

Humidity:65%

Test Distance:6.788m [K=1.0000]

Remarks:

Photometric Data Table [cd]

80.0	144.6	141.9	145.5	124.9	116.0	118.9	189.4	127.4	132.8	125.8
82.5	47.10	69.61	81.84	72.90	68.19	59.77	95.73	61.76	76.76	69.88
85.0	0	11.48	20.50	35.03	26.95	20.67	37.17	22.65	28.72	32.79
87.5	0	0	0	0	7.771	9.268	15.92	11.02	8.673	0
90.0	0	0	0	0	0	0	7.646	0	0	0
G/C	200.0	205.0	210.0	215.0	220.0	225.0	230.0	235.0	240.0	245.0
0.0	2603	2603	2603	2603	2603	2603	2603	2603	2603	2603
2.5	2589	2587	2584	2582	2580	2578	2576	2575	2574	2573
5.0	2572	2567	2562	2558	2554	2551	2548	2545	2543	2541
7.5	2549	2542	2535	2530	2524	2520	2517	2516	2514	2512
10.0	2522	2512	2504	2499	2496	2493	2490	2488	2485	2483
12.5	2489	2479	2474	2470	2467	2464	2461	2458	2454	2451
15.0	2454	2448	2444	2440	2437	2430	2424	2419	2416	2413
17.5	2418	2414	2411	2406	2395	2386	2380	2376	2376	2379
20.0	2380	2376	2372	2357	2346	2338	2337	2342	2346	2349
22.5	2339	2338	2319	2303	2292	2298	2305	2312	2317	2319
25.0	2295	2282	2261	2245	2255	2264	2274	2274	2275	2277
27.5	2246	2218	2196	2204	2218	2228	2224	2225	2228	2234
30.0	2179	2148	2144	2163	2176	2171	2169	2175	2192	2206
32.5	2105	2074	2097	2120	2112	2109	2123	2143	2163	2178
35.0	2018	2016	2049	2047	2042	2062	2089	2113	2093	2075
37.5	1927	1959	1981	1969	1987	2024	2040	2007	1984	1970
40.0	1859	1903	1892	1897	1944	1961	1922	1893	1883	1883
42.5	1793	1820	1801	1850	1883	1835	1800	1798	1797	1798
45.0	1726	1720	1739	1804	1750	1708	1709	1710	1701	1691
47.5	1647	1612	1686	1671	1611	1616	1620	1598	1584	1579
50.0	1528	1543	1597	1522	1516	1523	1494	1475	1469	1468
52.5	1400	1483	1440	1410	1423	1385	1362	1362	1360	1357
55.0	1303	1373	1291	1314	1280	1249	1254	1255	1241	1226
57.5	1239	1202	1191	1173	1136	1143	1145	1121	1105	1093
60.0	1148	1061	1076	1013	1031	1029	998.5	978.9	981.7	980.6
62.5	967.2	965.4	910.9	911.6	914.0	878.9	864.5	868.4	872.6	869.1
65.0	828.4	827.7	789.4	803.1	763.4	753.9	758.0	757.1	745.9	735.0
67.5	748.4	670.5	696.5	649.5	649.2	650.4	635.8	619.1	608.2	603.4
70.0	562.6	589.3	554.7	544.2	548.7	519.3	499.2	490.2	488.4	484.0
72.5	438.6	446.1	449.0	438.3	416.7	395.7	386.4	377.7	373.6	362.6
75.0	343.0	330.1	344.4	315.7	304.0	289.2	274.1	255.9	244.1	233.8
77.5	225.7	240.7	221.9	217.8	200.4	173.4	148.9	129.2	125.0	122.5
80.0	146.4	143.2	139.4	112.4	81.49	69.93	61.04	52.33	42.75	32.83
82.5	79.65	65.69	38.45	32.09	21.71	9.405	0	0	0	0
85.0	18.71	9.719	0	0	0	0	0	0	0	0
87.5	0	0	0	0	0	0	0	0	0	0
90.0	0	0	0	0	0	0	0	0	0	0
G/C	250.0	255.0	260.0	265.0	270.0	275.0	280.0	285.0	290.0	295.0
0.0	2603	2603	2603	2603	2603	2603	2603	2603	2603	2603
2.5	2572	2571	2571	2571	2571	2571	2571	2572	2573	2574
5.0	2540	2539	2539	2539	2539	2539	2540	2542	2543	2546
7.5	2510	2509	2508	2508	2508	2508	2509	2511	2513	2515
10.0	2482	2480	2478	2477	2477	2477	2478	2478	2480	2482
12.5	2449	2447	2446	2446	2446	2446	2447	2448	2448	2450
15.0	2413	2413	2413	2414	2415	2415	2417	2417	2419	2420
17.5	2380	2382	2383	2383	2383	2383	2384	2383	2385	2387
20.0	2352	2353	2354	2353	2352	2351	2349	2348	2347	2347
22.5	2318	2319	2320	2321	2320	2319	2319	2316	2313	2308
25.0	2279	2282	2286	2288	2290	2290	2290	2287	2284	2278
27.5	2244	2251	2255	2258	2258	2258	2255	2253	2249	2247
30.0	2216	2223	2227	2228	2227	2225	2219	2213	2207	2202
32.5	2163	2150	2144	2139	2138	2139	2141	2144	2148	2156
35.0	2063	2055	2050	2049	2049	2051	2056	2060	2064	2071
37.5	1967	1965	1962	1961	1959	1961	1964	1968	1975	1987
40.0	1882	1879	1876	1874	1870	1871	1870	1870	1874	1883
42.5	1792	1786	1783	1782	1781	1783	1784	1780	1777	1775
45.0	1688	1688	1688	1690	1692	1695	1700	1696	1693	1687
47.5	1581	1579	1575	1573	1572	1576	1581	1585	1595	1601
50.0	1468	1464	1459	1455	1451	1455	1453	1457	1463	1472
52.5	1350	1341	1335	1332	1331	1336	1336	1336	1337	1336
55.0	1218	1213	1210	1208	1211	1217	1221	1222	1224	1223
57.5	1092	1093	1090	1090	1091	1096	1096	1100	1107	1114
60.0	979.5	977.1	972.9	971.0	970.7	974.7	970.4	974.4	978.3	983.6
62.5	858.5	850.1	844.3	842.1	842.4	848.1	846.5	849.7	852.7	853.3
65.0	723.6	717.3	713.3	712.6	714.0	721.7	722.6	726.8	733.7	736.7
67.5	595.6	590.2	588.0	585.9	586.2	592.9	591.9	598.8	609.4	618.6
70.0	475.2	465.8	464.0	459.3	458.4	463.6	460.5	468.2	478.7	486.8

H( $\beta$ ) Range:-90 - 90DEGH( $\beta$ ) Interval: 1.0DEG

Test Speed: HIGH

Temperature:25.3DEG

Operators:Jessy

Test Date:2024-07-11

V(B) Range:-75 - 75DEG

V(B) Interval: 5.0DEG

Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.411

Humidity:65%

Test Distance:6.788m [K=1.0000]

Remarks:

## Photometric Data Table [cd]

72.5	350.5	338.1	333.4	332.2	329.8	336.3	335.0	341.5	352.8	359.2
75.0	222.2	209.4	201.9	205.1	201.1	209.3	210.1	216.4	231.3	240.7
77.5	116.2	107.8	102.1	103.0	100.5	105.2	106.9	112.4	123.9	131.9
80.0	22.21	12.72	5.735	1.514	0	1.547	6.004	13.26	23.72	35.35
82.5	0	0	0	0	0	0	0	0	0	0
85.0	0	0	0	0	0	0	0	0	0	0
87.5	0	0	0	0	0	0	0	0	0	0
90.0	0	0	0	0	0	0	0	0	0	0
G/C	300.0	305.0	310.0	315.0	320.0	325.0	330.0	335.0	340.0	345.0
0.0	2603	2603	2603	2603	2603	2603	2603	2603	2603	2603
2.5	2575	2577	2578	2580	2582	2584	2586	2589	2591	2594
5.0	2548	2551	2554	2557	2560	2564	2568	2572	2576	2581
7.5	2518	2522	2527	2531	2536	2541	2547	2552	2558	2564
10.0	2486	2489	2494	2500	2506	2514	2523	2529	2536	2543
12.5	2451	2453	2456	2462	2470	2479	2490	2502	2511	2518
15.0	2421	2422	2424	2425	2428	2438	2450	2464	2480	2490
17.5	2390	2392	2392	2392	2393	2395	2406	2422	2441	2459
20.0	2348	2351	2356	2360	2358	2359	2361	2376	2398	2422
22.5	2304	2305	2309	2314	2323	2323	2323	2324	2347	2375
25.0	2271	2263	2258	2263	2272	2286	2282	2278	2288	2319
27.5	2240	2231	2221	2211	2215	2227	2239	2230	2223	2256
30.0	2199	2197	2187	2172	2154	2160	2176	2179	2167	2186
32.5	2148	2143	2141	2134	2112	2086	2100	2122	2109	2111
35.0	2078	2086	2079	2077	2069	2037	2018	2041	2049	2034
37.5	1993	2000	2008	2005	2005	1989	1951	1956	1986	1965
40.0	1897	1913	1919	1925	1924	1928	1897	1864	1901	1896
42.5	1784	1803	1831	1835	1837	1840	1844	1794	1805	1826
45.0	1679	1683	1706	1741	1745	1749	1758	1734	1704	1753
47.5	1591	1585	1579	1611	1654	1655	1655	1673	1604	1653
50.0	1486	1497	1487	1480	1517	1560	1552	1569	1531	1531
52.5	1350	1370	1398	1390	1376	1425	1453	1449	1459	1402
55.0	1224	1227	1256	1294	1281	1274	1344	1335	1359	1275
57.5	1115	1114	1113	1141	1184	1163	1180	1231	1218	1192
60.0	995.8	1007	1005	999.8	1024	1071	1034	1097	1079	1110
62.5	861.9	871.0	888.2	894.0	883.5	911.4	937.5	925.8	978.5	990.2
65.0	739.1	734.3	745.0	767.6	781.9	765.1	799.4	804.7	848.2	850.4
67.5	626.7	626.0	622.6	624.6	647.1	671.5	649.5	703.5	663.6	714.5
70.0	498.5	508.7	518.6	517.5	514.1	532.9	558.6	533.8	549.6	607.9
72.5	366.5	377.8	392.9	411.6	417.2	408.0	427.1	435.9	431.8	409.2
75.0	250.7	259.3	269.5	284.0	305.5	322.1	314.5	318.7	309.1	330.9
77.5	140.4	146.7	162.7	177.4	189.0	207.4	229.6	220.0	230.1	204.5
80.0	48.17	60.33	73.16	85.26	92.84	111.8	122.7	144.0	144.0	157.5
82.5	0	0	0	11.43	26.01	39.54	47.48	62.35	75.96	78.82
85.0	0	0	0	0	0	0	0	11.69	22.43	28.57
87.5	0	0	0	0	0	0	0	0	0	0
90.0	0	0	0	0	0	0	0	0	0	0
G/C	350.0	355.0								
0.0	2603	2603								
2.5	2596	2599								
5.0	2586	2591								
7.5	2570	2577								
10.0	2551	2559								
12.5	2526	2536								
15.0	2499	2509								
17.5	2469	2480								
20.0	2435	2445								
22.5	2396	2404								
25.0	2351	2358								
27.5	2299	2308								
30.0	2235	2255								
32.5	2168	2196								
35.0	2090	2131								
37.5	2006	2060								
40.0	1919	1987								
42.5	1825	1914								
45.0	1719	1831								
47.5	1622	1726								
50.0	1528	1613								
52.5	1435	1493								
55.0	1341	1369								
57.5	1235	1232								
60.0	1084	1085								
62.5	934.8	948.1								

H(B) Range:-90 - 90DEG

H(B) Interval: 1.0DEG

Test Speed: HIGH

Temperature:25.3DEG

Operators:Jessy

Test Date:2024-07-11

V(B) Range:-75 - 75DEG

V(B) Interval: 5.0DEG

Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.411

Humidity:65%

Test Distance:6.788m [K=1.0000]

Remarks:



## Photometric Data Table [cd]

65.0	805.1	829.2
67.5	716.1	708.3
70.0	616.1	593.1
72.5	437.0	485.3
75.0	346.2	327.0
77.5	222.6	214.6
80.0	147.0	158.2
82.5	68.98	77.09
85.0	30.59	32.62
87.5	9.565	12.00
90.0	0	0

**H( $\beta$ ) Range:-90 - 90DEG**  
**H( $\beta$ ) Interval: 1.0DEG**  
**Test Speed: HIGH**  
**Temperature:25.3DEG**  
**Operators:Jessy**  
**Test Date:2024-07-11**

**V(B) Range:-75 - 75DEG**  
**V(B) Interval: 5.0DEG**  
**Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.411**  
**Humidity:65%**  
**Test Distance:6.788m [K=1.0000]**  
**Remarks:**