

LUMINAIRE PHOTOMETRIC TEST REPORT

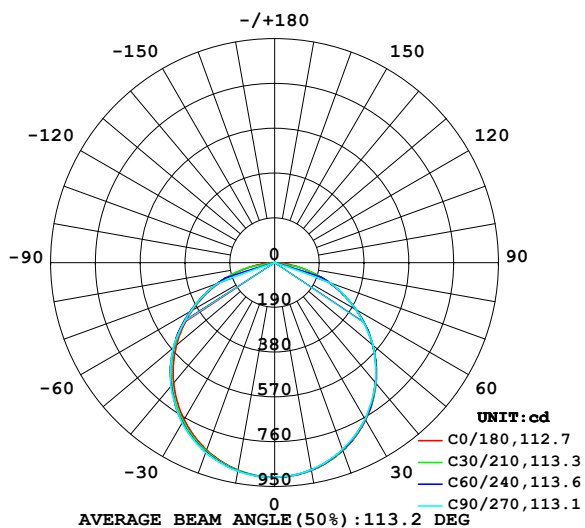
Test:U:120.07V I:0.3359A P:39.779W PF:0.9863 Freq:59.98Hz

Lamp Flux:2514.21x1 lm

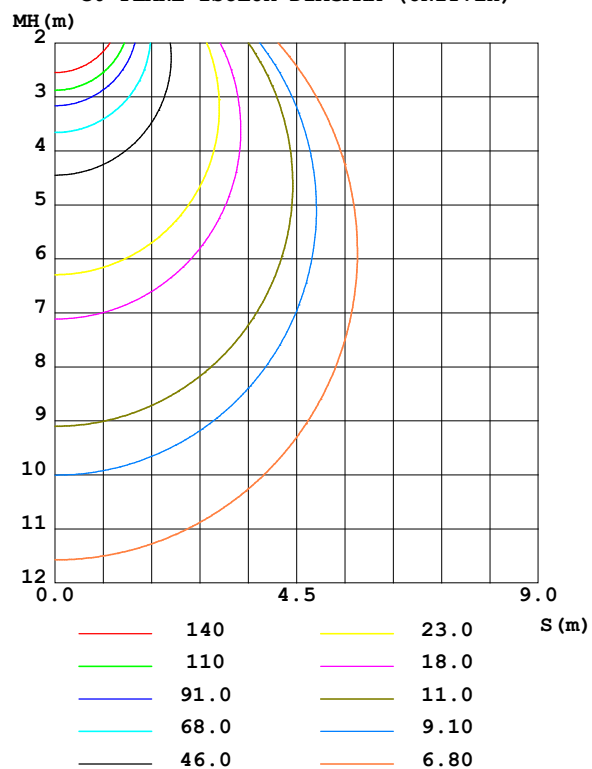
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 2700K
MFR.:	SUR.: 0.558	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 63.20 lm/W
MODEL	EGRF2440LAJUDWH_2700K	I _{max} (cd)	910.5	S/MH(C0/180)	1.26	
NOMINAL POWER(W)	40	LOR(%)	100.0	S/MH(C90/270)	1.28	
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	2514.2	η UP,DN(C0-180)	0.0,49.5	
NOMINAL FLUX(lm)	2514.21	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,50.5	
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	1.25	
TEST VOLTAGE(V)	120	η down (%)	100.0	CIBSE SHR MAX	1.35	

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



H(β) Range:-90 - 90DEG

H(β) Interval: 1.0DEG

Test Speed: HIGH

Temperature:25.3DEG

Operators:

Test Date:2025-01-20

V(B) Range:-70 - 70DEG

V(B) Interval: 2.0DEG

Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.454

Humidity:65.0%

Test Distance:8.800m [K=1.0000]

Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

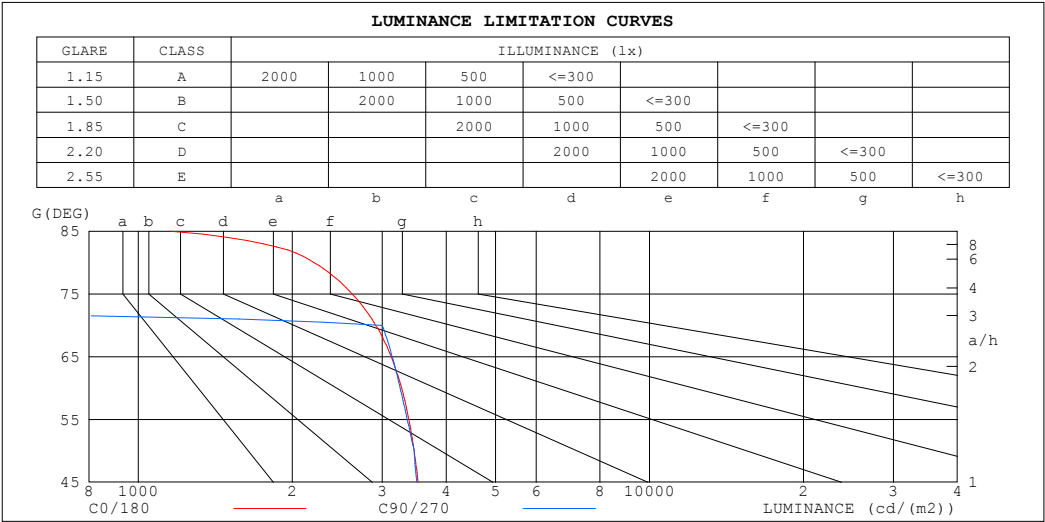
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	895.2	892.9	892.3	891.8	893.7	896.3	898.4	896.9	0- 10	86.14	86.14	3.43,3.43
20	848.0	844.6	843.3	842.2	845.4	852.3	857.0	852.8	10- 20	247.0	333.1	13.2,13.2
30	771.9	768.0	767.5	764.6	768.9	780.2	785.5	779.5	20- 30	375.2	708.3	28.2,28.2
40	669.4	667.0	666.9	663.2	667.0	681.6	685.7	680.0	30- 40	453.7	1162	46.2,46.2
50	544.0	543.1	544.1	542.0	543.9	560.4	562.7	554.9	40- 50	472.4	1634	65,65
60	400.1	400.4	397.4	400.8	403.0	416.6	410.6	410.8	50- 60	427.3	2062	82,82
70	243.4	244.0	250.7	248.1	250.1	257.9	258.5	248.9	60- 70	324.1	2386	94.9,94.9
80	93.67	0	0	0	103.0	0	0	0	70- 80	119.3	2505	99.6,99.6
90	0.0663	0	0	0	0.0497	0	0	0	80- 90	9.150	2514	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		

H(β) Range:-90 - 90DEG
 H(β) Interval: 1.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2025-01-20

V(B) Range:-70 - 70DEG
 V(B) Interval: 2.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.454
 Humidity:65.0%
 Test Distance:8.800m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:120.07V I:0.3359A P:39.779W PF:0.9863 Freq:59.98Hz Lamp Flux:2514.21x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 2700K
MFR.:	SUR.: 0.558	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	1160	0
80	2207	0
75	2620	0
70	2912	2999
65	3124	3137
60	3274	3252
55	3382	3358
50	3463	3463
45	3526	3504

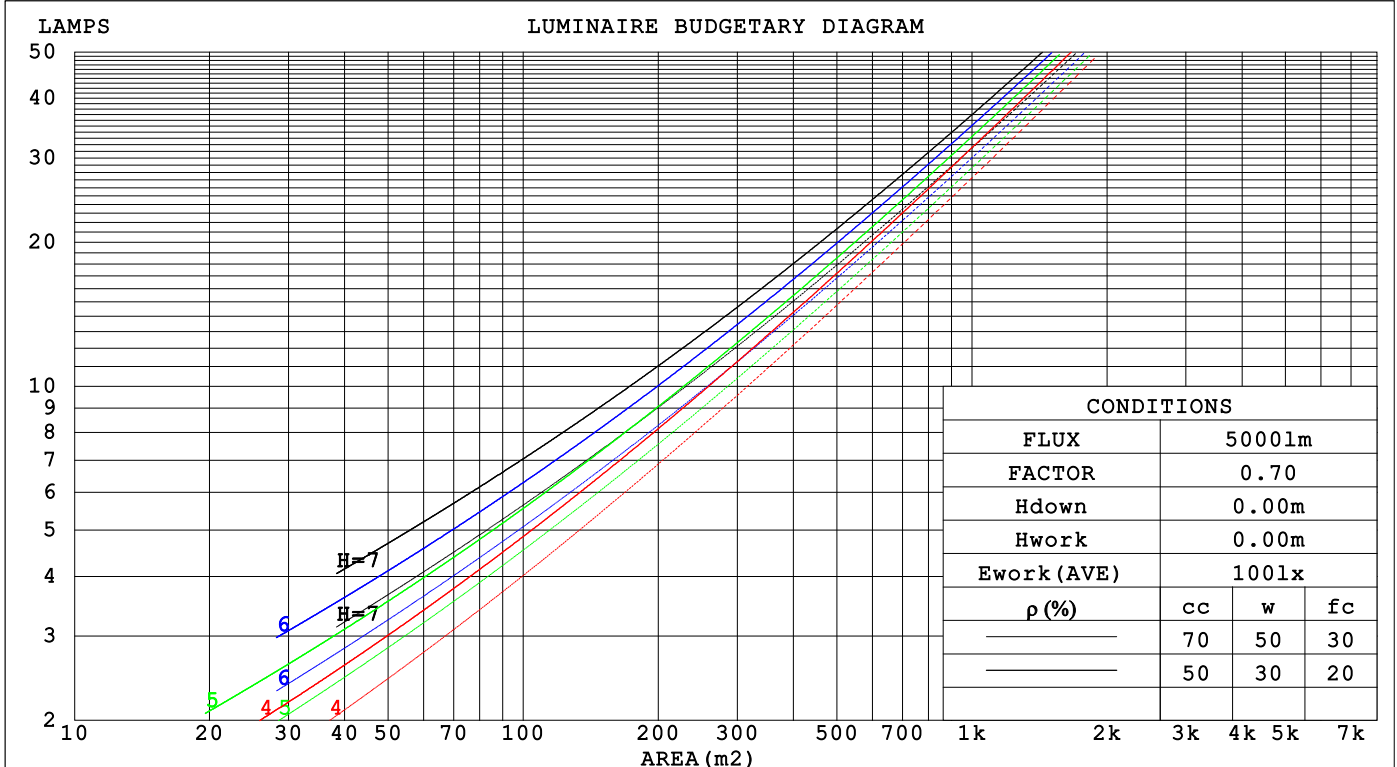
H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2025-01-20

V(B) Range:-70 - 70DEG
V(B) Interval: 2.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.454
Humidity:65.0%
Test Distance:8.800m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.07V I:0.3359A P:39.779W PF:0.9863 Freq:59.98Hz Lamp Flux:2514.21x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 2700K
MFR.:	SUR.: 0.558	Shielding Angle:

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	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	1.00
1.0	1.05	1.01	.98	1.03	.99	.96	.99	.96	.93	.95	.92	.90	.91	.89	.88	.86
2.0	.92	.86	.80	.90	.84	.79	.87	.82	.77	.83	.79	.76	.80	.77	.74	.72
3.0	.81	.73	.67	.79	.72	.66	.76	.70	.65	.74	.68	.64	.71	.67	.63	.61
4.0	.72	.63	.57	.70	.62	.56	.68	.61	.55	.66	.60	.55	.63	.58	.54	.52
5.0	.64	.55	.49	.63	.55	.48	.61	.53	.48	.59	.52	.47	.57	.51	.47	.45
6.0	.58	.49	.42	.57	.48	.42	.55	.47	.42	.53	.47	.41	.52	.46	.41	.39
7.0	.52	.43	.37	.51	.43	.37	.50	.42	.37	.48	.42	.37	.47	.41	.36	.34
8.0	.48	.39	.33	.47	.39	.33	.46	.38	.33	.44	.38	.33	.43	.37	.33	.31
9.0	.44	.35	.30	.43	.35	.30	.42	.35	.30	.41	.34	.30	.40	.34	.29	.28
10.0	.40	.32	.27	.40	.32	.27	.39	.32	.27	.38	.31	.27	.37	.31	.27	.25



H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2025-01-20

V(B) Range:-70 - 70DEG
V(B) Interval: 2.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.454
Humidity:65.0%
Test Distance:8.800m [K=1.0000]
Remarks:

WEC AND CCEC

Test:U:120.07V I:0.3359A P:39.779W PF:0.9863 Freq:59.98Hz Lamp Flux:2514.21x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 2700K
MFR.:	SUR.: 0.558	Shielding Angle:

pcc	80%			70%			50%			30%			10%			0														
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0														
pfc	20%			20%			20%			20%			20%			0														
RCR	RCR:Room Cavity Ratio															Wall Exitance Coefficients(WEC)														
0.0																														
1.0	.285	.162	.051	.278	.158	.050	.264	.152	.048	.252	.146	.047	.241	.140	.045															
2.0	.276	.151	.046	.270	.149	.046	.259	.144	.045	.248	.139	.044	.238	.135	.042															
3.0	.260	.138	.041	.254	.136	.041	.244	.132	.040	.235	.129	.039	.226	.125	.039															
4.0	.242	.126	.037	.237	.124	.037	.228	.121	.036	.220	.118	.036	.212	.115	.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	.196	.097	.027	.193	.096	.027	.186	.094	.027	.180	.092	.027	.175	.091	.027															
8.0	.184	.090	.025	.181	.089	.025	.175	.087	.025	.169	.086	.025	.164	.084	.025															
9.0	.172	.083	.023	.170	.083	.023	.164	.081	.023	.160	.080	.023	.155	.079	.023															
10.0	.162	.078	.022	.160	.077	.022	.155	.076	.021	.151	.075	.021	.147	.074	.021															

pcc	80%			70%			50%			30%			10%			0
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pfc	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	.170	.132	.100	.146	.114	.086	.100	.079	.060	.058	.046	.035	.018	.015	.012	
3.0	.163	.114	.076	.139	.099	.066	.096	.068	.046	.055	.040	.027	.018	.013	.009	
4.0	.155	.101	.059	.133	.087	.052	.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	.049	.029	.015	.016	.010	.005	
7.0	.134	.075	.034	.116	.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	.025	.105	.056	.022	.073	.039	.016	.042	.023	.009	.014	.008	.003	
10.0	.117	.060	.023	.100	.052	.020	.070	.037	.014	.041	.022	.008	.013	.007	.003	

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2025-01-20

V(B) Range:-70 - 70DEG
V(B) Interval: 2.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.454
Humidity:65.0%
Test Distance:8.800m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

Test:U:120.07V I:0.3359A P:39.779W PF:0.9863 Freq:59.98Hz Lamp Flux:2514.21x1 lm											
NAME:					TYPE:			WEIGHT:			
SPEC.:					DIM.:			SERIAL No.: 2700K			
MFR.:					SUR.: 0.558			Shielding Angle:			
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		17.2	18.7	17.5	18.9	19.1	17.2	18.7	17.5	18.9	19.1
3H		18.7	20.0	19.0	20.3	20.5	18.6	19.9	18.9	20.2	20.4
4H		19.2	20.5	19.5	20.8	21.0	18.5	19.8	18.8	20.0	20.3
6H		19.5	20.8	19.9	21.0	21.3	18.4	19.6	18.7	19.8	20.1
8H		19.6	20.8	19.9	21.0	21.3	18.3	19.5	18.6	19.8	20.1
12H		19.6	20.7	19.9	21.0	21.3	18.2	19.4	18.6	19.7	20.0
4H 2H		17.8	19.1	18.1	19.4	19.6	17.8	19.1	18.1	19.4	19.6
3H		19.5	20.6	19.8	20.9	21.2	19.3	20.5	19.7	20.8	21.1
4H		20.1	21.2	20.5	21.5	21.8	19.2	20.3	19.6	20.6	20.9
6H		20.5	21.5	20.9	21.8	22.2	19.1	20.1	19.5	20.4	20.8
8H		20.6	21.5	21.0	21.8	22.2	19.1	19.9	19.5	20.3	20.7
12H		20.6	21.4	21.1	21.8	22.2	19.1	19.8	19.5	20.2	20.6
8H 4H		20.3	21.1	20.7	21.5	21.9	19.4	20.2	19.8	20.6	21.0
6H		20.8	21.5	21.2	21.9	22.3	19.3	20.0	19.7	20.4	20.8
8H		20.9	21.5	21.3	21.9	22.3	19.3	19.9	19.7	20.3	20.8
12H		20.9	21.4	21.4	21.9	22.3	19.2	19.8	19.7	20.2	20.7
12H 4H		20.2	21.0	20.6	21.4	21.8	19.4	20.1	19.8	20.5	20.9
6H		20.7	21.3	21.2	21.8	22.2	19.3	19.9	19.7	20.3	20.8
8H		20.8	21.3	21.3	21.8	22.3	19.3	19.8	19.7	20.2	20.7
Variations with the observer position at spacings(CIE Pub.117):											
S = 1.0H		+ 0.2 / - 0.3					+ 0.3 / - 0.4				
1.5H		+ 0.2 / - 0.5					+ 0.4 / - 0.7				
2.0H		+ 0.3 / - 0.6					+ 0.6 / - 1.3				

CIE Pub.117, 2514 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = 3.2$)
Area: 0.2444 m²

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2025-01-20

V(B) Range:-70 - 70DEG
V(B) Interval: 2.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.454
Humidity:65.0%
Test Distance:8.800m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:120.07V I:0.3359A P:39.779W PF:0.9863 Freq:59.98Hz Lamp Flux:2514.21x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 2700K
MFR.:	SUR.: 0.558	Shielding Angle:

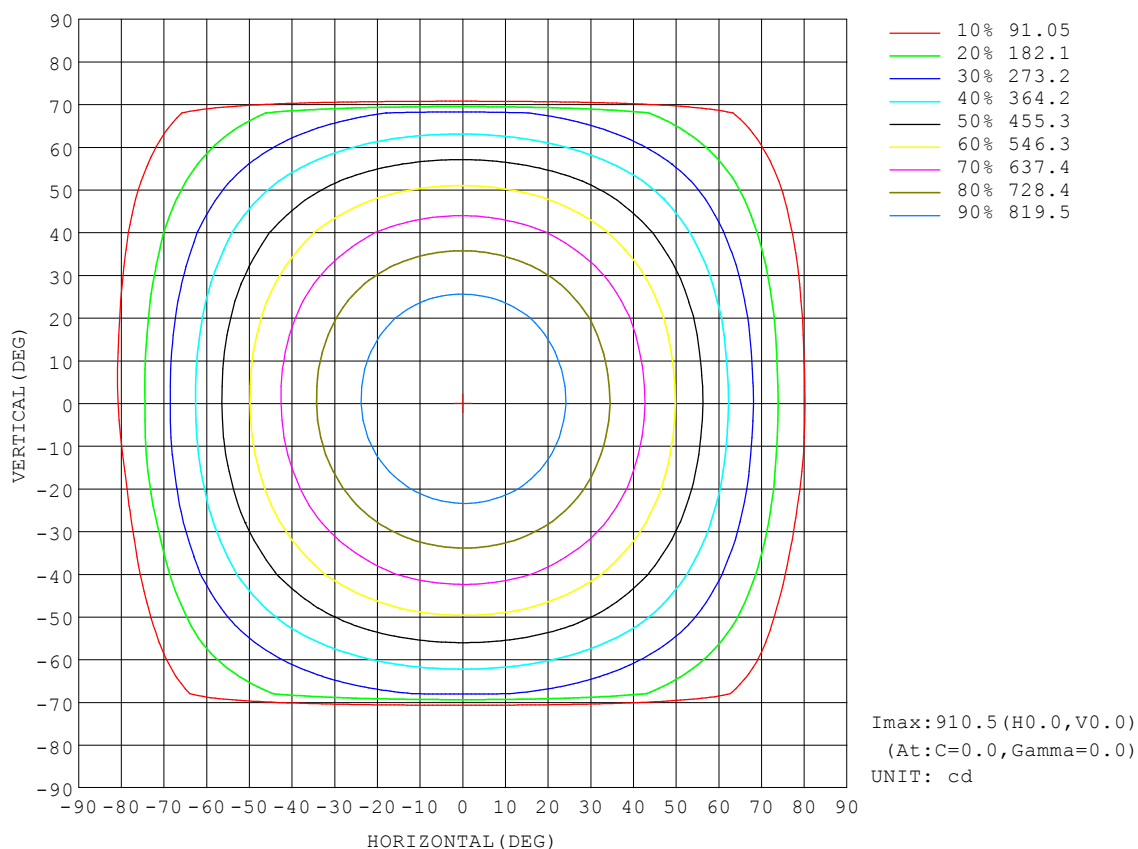
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	58	47	40	58	47	40	56	46	40	33
0.80	69	57	50	68	57	50	66	56	49	42
1.00	77	66	59	76	66	59	74	67	58	51
1.25	84	74	67	83	74	67	80	72	66	59
1.50	89	80	73	88	79	73	85	77	72	64
2.00	96	88	82	95	87	81	91	85	80	72
2.50	100	93	87	98	91	86	94	89	84	76
3.00	103	97	92	101	96	91	97	93	89	80
4.00	107	102	98	105	100	96	101	97	94	85
5.00	110	105	102	107	103	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:
 Test Date:2025-01-20

$V(B)$ Range:-70 - 70DEG
 $V(B)$ Interval: 2.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.454
 Humidity:65.0%
 Test Distance:8.800m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:120.07V I:0.3359A P:39.779W PF:0.9863 Freq:59.98Hz Lamp Flux:2514.21x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 2700K
MFR.:	SUR.: 0.558	Shielding Angle:

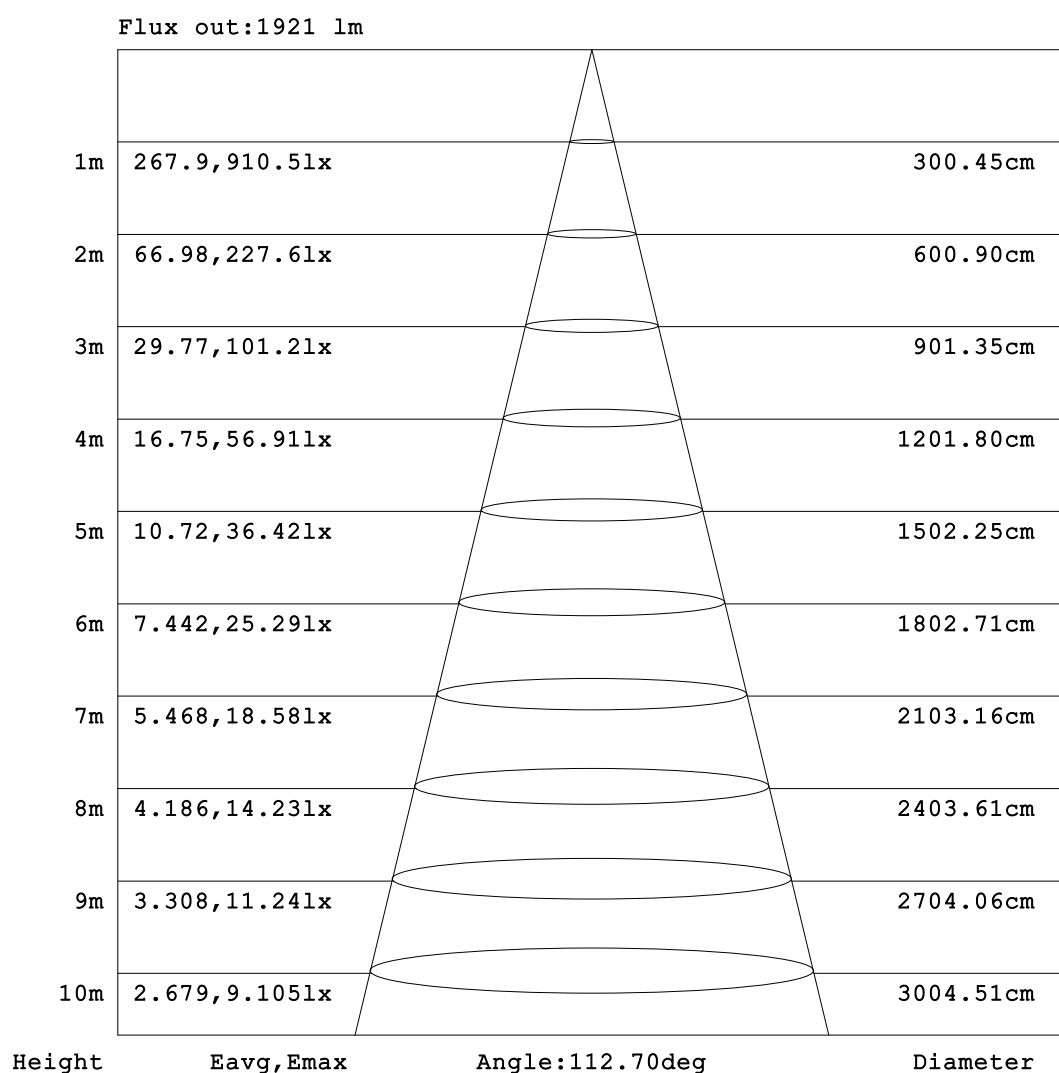


H(β) Range: -90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2025-01-20

V(B) Range: -70 - 70DEG
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Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.454
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Remarks:

AAI Figure

Test:U:120.07V I:0.3359A P:39.779W PF:0.9863 Freq:59.98Hz Lamp Flux:2514.21lx1 lm		
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SPEC.:	DIM.:	SERIAL No.: 2700K
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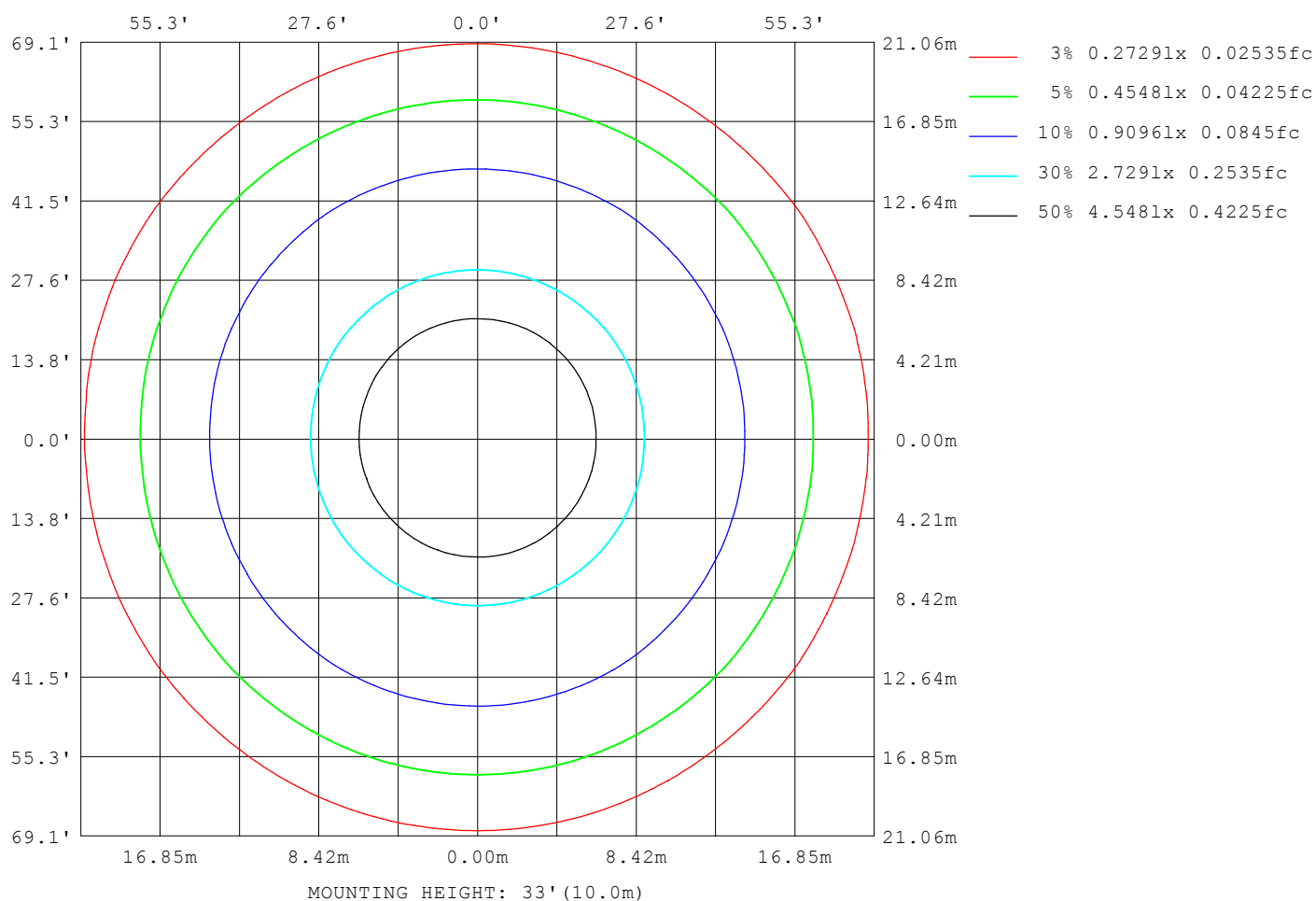
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

H(β) Range:-90 - 90DEG
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Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2025-01-20

V(B) Range:-70 - 70DEG
V(B) Interval: 2.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.454
Humidity:65.0%
Test Distance:8.800m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

Test:U:120.07V I:0.3359A P:39.779W PF:0.9863 Freq:59.98Hz Lamp Flux:2514.21x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 2700K
MFR.:	SUR.: 0.558	Shielding Angle:



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Humidity:65.0%
Test Distance:8.800m [K=1.0000]
Remarks:

LED Avg.L Report

Test:U:120.07V I:0.3359A P:39.779W PF:0.9863 Freq:59.98Hz Lamp Flux:2514.21x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 2700K
MFR.:	SUR.: 0.558	Shielding Angle:

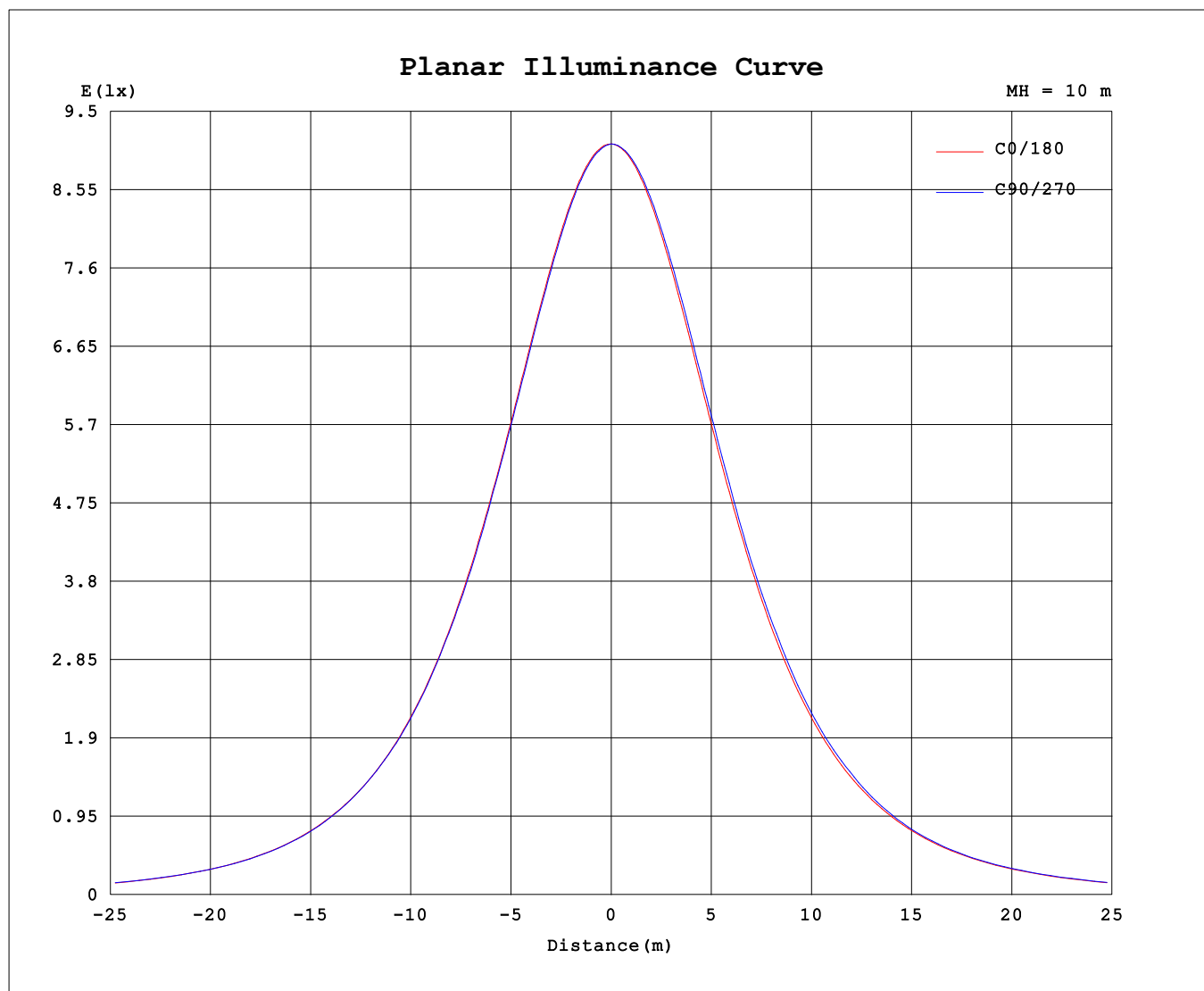
AvgL	cd/m2
L_0~180 (65) av	3147
L_0~180 (75) av	2688
L_0~180 (85) av	1098
L_90~270 (65) av	3188
L_90~270 (75) av	0
L_90~270 (85) av	0
L_45 (65) av	3170
L_45 (75) av	2751
L_45 (85) av	0

Standard: GB/T 29293-2012

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
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V(B) Range:-70 - 70DEG
V(B) Interval: 2.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.454
Humidity:65.0%
Test Distance:8.800m [K=1.0000]
Remarks:

Planar Illuminance Curve



H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2025-01-20

V(B) Range:-70 - 70DEG
V(B) Interval: 2.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.454
Humidity:65.0%
Test Distance:8.800m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.07V I:0.3359A P:39.779W PF:0.9863 Freq:59.98Hz Lamp Flux:2514.21x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 2700K
MFR.:	SUR.: 0.558	Shielding Angle:

Table--1

UNIT: cd

[illegible]

```
H( $\beta$ ) Range:-90 - 90DEG
H( $\beta$ ) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2025-01-20
```

```
V(B) Range:-70 - 70DEG
V(B) Interval: 2.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.454
Humidity:65.0%
Test Distance:8.800m [K=1.0000]
Remarks:
```

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.07V I:0.3359A P:39.779W PF:0.9863 Freq:59.98Hz Lamp Flux:2514.21x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 2700K
MFR.:	SUR.: 0.558	Shielding Angle:

Table--2

UNIT: cd

[illegible]

```
H( $\beta$ ) Range:-90 - 90DEG
H( $\beta$ ) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2025-01-20
```

```
V(B) Range:-70 - 70DEG
V(B) Interval: 2.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.454
Humidity:65.0%
Test Distance:8.800m [K=1.0000]
Remarks:
```

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.07V I:0.3359A P:39.779W PF:0.9863 Freq:59.98Hz Lamp Flux:2514.21x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 2700K
MFR.:	SUR.: 0.558	Shielding Angle:

Table--3

UNIT: cd

[illegible]

```
H( $\beta$ ) Range:-90 - 90DEG
H( $\beta$ ) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2025-01-20
```

```
V(B) Range:-70 - 70DEG
V(B) Interval: 2.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.454
Humidity:65.0%
Test Distance:8.800m [K=1.0000]
Remarks:
```

