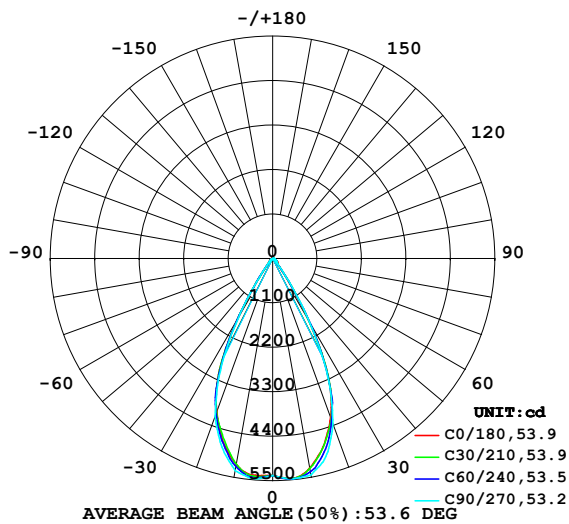


LUMINAIRE PHOTOMETRIC TEST REPORT

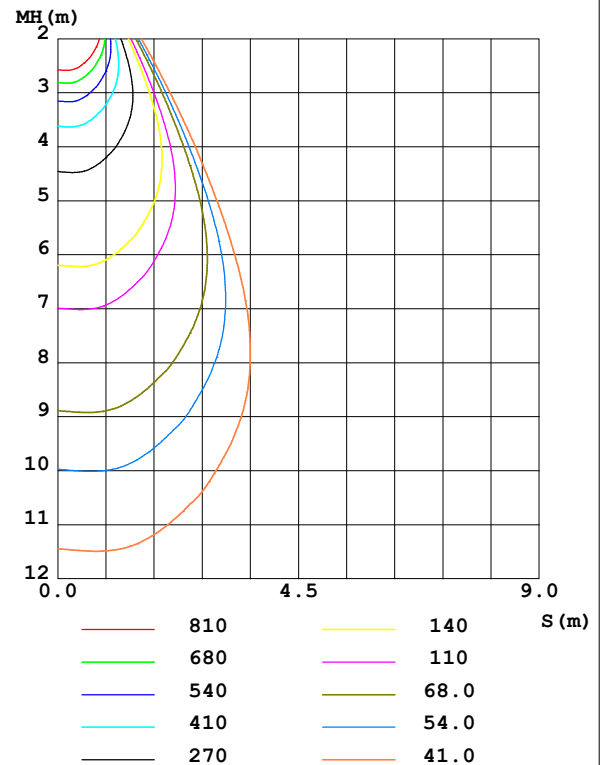
NAME: BL7069-C40-3-50-NS	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 96.66 lm/W
MODEL		Imax (cd)	5480	S/MH (C0/180)		0.79
NOMINAL POWER(W)	40	LOR (%)	130.8	S/MH (C90/270)		0.78
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	3924.6	η UP,DN (C0-180)		0.0,66.6
NOMINAL FLUX(lm)	3000	CIE CLASS	DIRECT	η UP,DN (C180-360)		0.0,64.2
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM		0.75
TEST VOLTAGE (V)	220.1	η down (%)	130.8	CIBSE SHR MAX		0.80

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



H(β) Range:-90 - 90DEG
H(β) Interval: 0.5DEG
Test Speed: MEDIUM
Temperature:25.3℃
Operators:ZT
Test Date:2024-01-23

V(B) Range:-85 - 85DEG
V(B) Interval: 2.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.265
Humidity:65.0%
Test Distance:10.722m [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	5270	5309	5441	5237	5180	5188	5333	5223	0- 10	514.2	514.2	13.1, 17.1
20	4193	4232	4371	4095	4045	4081	4166	4127	10- 20	1336	1850	47.1, 61.7
30	1843	1868	1842	1797	1773	1764	1708	1796	20- 30	1408	3258	83, 109
40	242.0	230.2	216.2	229.7	212.4	194.9	174.4	196.5	30- 40	473.3	3731	95.1, 124
50	127.8	97.24	98.76	98.31	104.5	85.57	80.08	81.62	40- 50	104.2	3836	97.7, 128
60	52.02	36.38	35.35	35.26	45.41	25.60	23.61	25.23	50- 60	56.55	3892	99.2, 130
70	17.01	12.28	12.44	12.79	24.00	5.820	5.731	5.964	60- 70	19.10	3911	99.7, 130
80	8.129	7.879	8.435	8.212	20.56	3.555	3.792	3.986	70- 80	8.814	3920	99.9, 131
90	4.277	0	0	0	8.211	0	0	0	80- 90	4.501	3925	100, 131
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): 3791.4 lm

%lum = 96.6%

%lamp = 126.4%

Conical surface Flux(120deg): 3892.1 lm

%lum = 99.2%

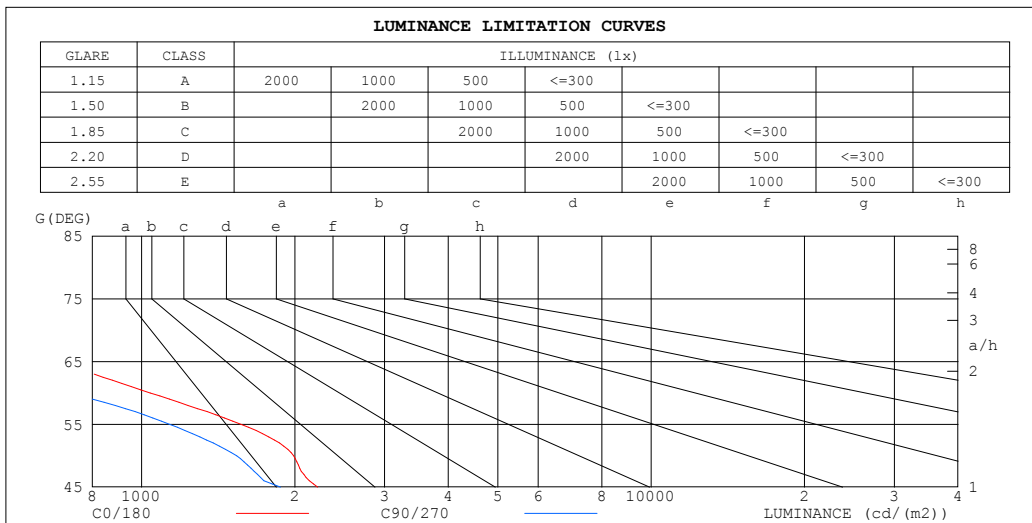
%lamp = 129.7%

H(β) Range:-90 - 90DEG
 H(β) Interval: 0.5DEG
 Test Speed: MEDIUM
 Temperature:25.3°C
 Operators:ZT
 Test Date:2024-01-23

V(B) Range:-85 - 85DEG
 V(B) Interval: 2.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.265
 Humidity:65.0%
 Test Distance:10.722m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES

NAME: BL7069-C40-3-50-NS	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



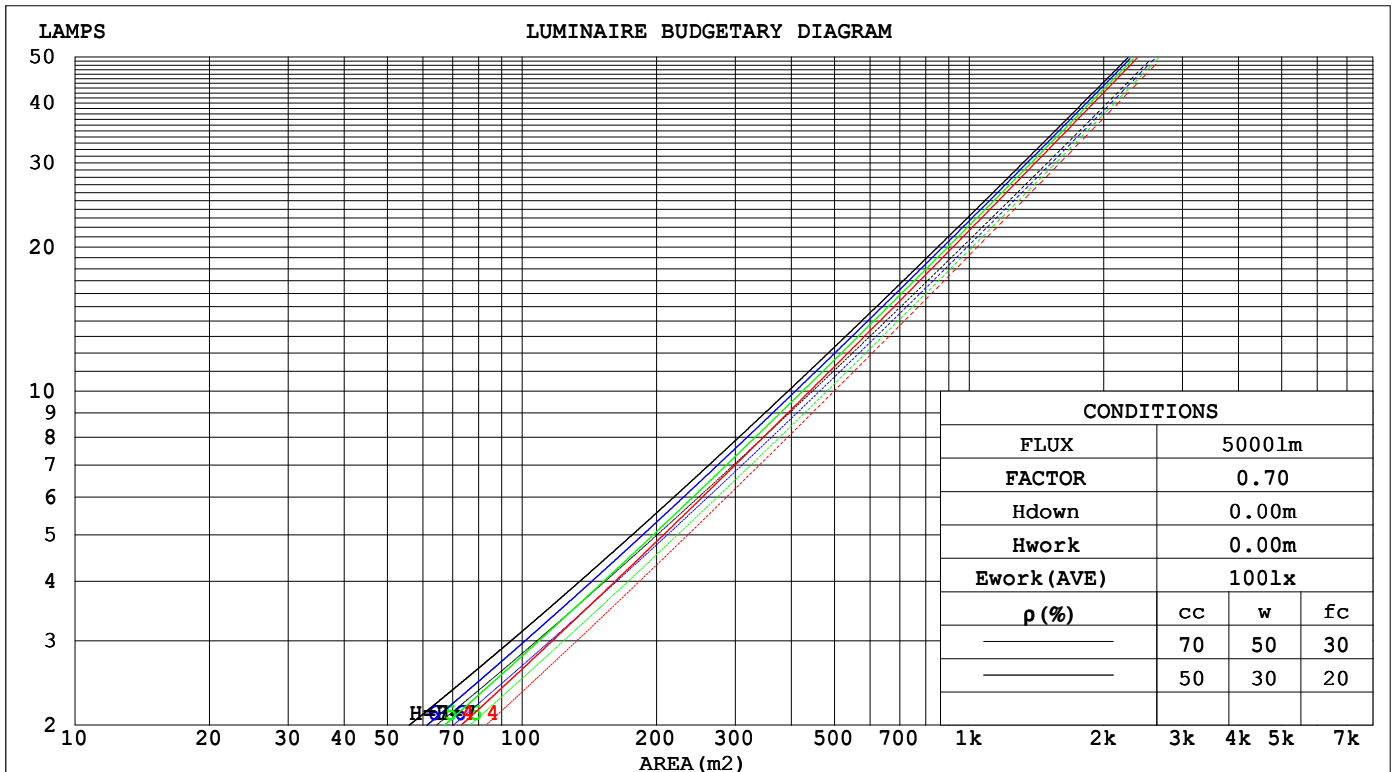
H(β) Range:-90 - 90DEG
H(β) Interval: 0.5DEG
Test Speed: MEDIUM
Temperature:25.3°C
Operators:ZT
Test Date:2024-01-23

V(B) Range:-85 - 85DEG
V(B) Interval: 2.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.265
Humidity:65.0%
Test Distance:10.722m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

NAME: BL7069-C40-3-50-NS	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	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	1.56	1.56	1.56	1.52	1.52	1.52	1.45	1.45	1.45	1.39	1.39	1.39	1.33	1.33	1.33	1.31														
1.0	1.45	1.42	1.40	1.43	1.40	1.37	1.37	1.35	1.33	1.33	1.31	1.29	1.28	1.27	1.25	1.23														
2.0	1.36	1.31	1.27	1.34	1.29	1.26	1.30	1.26	1.23	1.26	1.23	1.20	1.22	1.20	1.18	1.16														
3.0	1.28	1.22	1.17	1.26	1.20	1.16	1.23	1.18	1.14	1.20	1.16	1.12	1.17	1.13	1.11	1.09														
4.0	1.20	1.14	1.08	1.19	1.13	1.08	1.16	1.11	1.07	1.14	1.09	1.05	1.11	1.07	1.04	1.02														
5.0	1.13	1.06	1.01	1.12	1.06	1.01	1.10	1.04	.00	1.08	1.03	.99	1.06	1.02	.98	.96														
6.0	1.07	1.00	.95	1.06	.00	.95	1.04	.98	.94	1.03	.97	.93	1.01	.96	.93	.91														
7.0	1.02	.94	.89	1.01	.94	.89	.99	.93	.89	.98	.92	.88	.96	.91	.88	.86														
8.0	.97	.89	.84	.96	.89	.84	.94	.88	.84	.93	.88	.83	.92	.87	.83	.81														
9.0	.92	.85	.80	.91	.84	.80	.90	.84	.79	.89	.83	.79	.88	.83	.79	.77														
10.0	.87	.80	.76	.87	.80	.76	.86	.80	.75	.85	.79	.75	.84	.79	.75	.73														



H(β) Range:-90 - 90DEG
H(β) Interval: 0.5DEG
Test Speed: MEDIUM
Temperature:25.3°C
Operators:ZT
Test Date:2024-01-23

V(B) Range:-85 - 85DEG
V(B) Interval: 2.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.265
Humidity:65.0%
Test Distance:10.722m [K=1.0000]
Remarks:

WEC AND CCEC

NAME: BL7069-C40-3-50-NS	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	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	.222	.126	.040	.213	.122	.039	.197	.113	.036	.182	.105	.034	.168	.097	.031															
2.0	.211	.115	.035	.203	.112	.034	.189	.105	.033	.177	.099	.031	.165	.093	.029															
3.0	.200	.106	.032	.193	.104	.031	.182	.098	.030	.171	.094	.029	.161	.089	.028															
4.0	.189	.098	.029	.184	.096	.028	.174	.092	.028	.165	.088	.027	.156	.085	.026															
5.0	.180	.092	.027	.176	.090	.026	.167	.087	.026	.159	.084	.025	.151	.081	.024															
6.0	.172	.086	.025	.168	.085	.024	.160	.082	.024	.153	.079	.023	.146	.077	.023															
7.0	.164	.081	.023	.161	.080	.023	.154	.078	.022	.148	.076	.022	.142	.074	.022															
8.0	.157	.077	.022	.154	.076	.021	.148	.074	.021	.142	.072	.021	.137	.070	.020															
9.0	.151	.073	.020	.148	.072	.020	.142	.070	.020	.137	.069	.020	.133	.067	.019															
10.0	.145	.069	.019	.142	.069	.019	.137	.067	.019	.133	.066	.019	.128	.065	.019															

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	.249	.249	.249	.213	.213	.213	.145	.145	.145	.084	.084	.084	.027	.027	.027	
1.0	.223	.206	.190	.191	.177	.164	.131	.122	.113	.075	.070	.066	.024	.023	.021	
2.0	.202	.173	.149	.173	.149	.129	.119	.103	.090	.069	.060	.053	.022	.019	.017	
3.0	.186	.148	.119	.159	.128	.103	.109	.089	.072	.063	.052	.043	.020	.017	.014	
4.0	.172	.129	.097	.147	.112	.084	.101	.078	.059	.059	.046	.035	.019	.015	.011	
5.0	.160	.114	.080	.137	.098	.069	.094	.069	.049	.055	.040	.029	.018	.013	.010	
6.0	.150	.101	.067	.129	.088	.058	.089	.061	.041	.051	.036	.024	.017	.012	.008	
7.0	.141	.091	.057	.121	.079	.049	.084	.055	.035	.049	.033	.021	.016	.011	.007	
8.0	.133	.083	.048	.115	.072	.042	.079	.051	.030	.046	.030	.018	.015	.010	.006	
9.0	.127	.076	.042	.109	.066	.037	.076	.046	.026	.044	.027	.016	.014	.009	.005	
10.0	.121	.070	.037	.104	.061	.032	.072	.043	.023	.042	.025	.014	.014	.008	.005	

H(β) Range:-90 - 90DEG
H(β) Interval: 0.5DEG
Test Speed: MEDIUM
Temperature:25.3℃
Operators:ZT
Test Date:2024-01-23

V(B) Range:-85 - 85DEG
V(B) Interval: 2.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.265
Humidity:65.0%
Test Distance:10.722m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

NAME: BL7069-C40-3-50-NS					TYPE:					WEIGHT:				
SPEC.:					DIM.:					SERIAL No.:				
MFR.:					SUR.:					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					6.4	7.2	6.6	7.4	7.6	6.5	7.4	6.7	7.6	7.7
3H					6.3	7.1	6.6	7.3	7.5	6.4	7.2	6.7	7.4	7.6
4H					6.3	7.0	6.5	7.2	7.5	6.4	7.2	6.7	7.4	7.6
6H					6.2	7.0	6.5	7.2	7.4	6.4	7.1	6.7	7.3	7.6
8H					6.2	6.9	6.5	7.2	7.4	6.4	7.1	6.7	7.3	7.6
12H					6.2	6.9	6.6	7.2	7.4	6.4	7.0	6.7	7.3	7.6
4H 2H					6.2	7.0	6.5	7.2	7.4	6.4	7.1	6.6	7.3	7.6
3H					6.1	6.8	6.5	7.1	7.3	6.3	6.9	6.6	7.2	7.5
4H					6.1	6.7	6.5	7.0	7.3	6.3	6.9	6.6	7.2	7.5
6H					6.1	6.7	6.5	7.0	7.3	6.3	6.8	6.6	7.1	7.5
8H					6.2	6.7	6.6	7.0	7.4	6.3	6.8	6.7	7.1	7.5
12H					6.2	6.7	6.6	7.1	7.4	6.3	6.8	6.7	7.2	7.5
8H 4H					6.0	6.5	6.4	6.9	7.2	6.2	6.6	6.5	7.0	7.4
6H					6.1	6.5	6.5	6.9	7.3	6.2	6.6	6.6	7.0	7.4
8H					6.2	6.5	6.6	6.9	7.4	6.3	6.6	6.7	7.1	7.5
12H					6.3	6.6	6.8	7.0	7.5	6.4	6.7	6.8	7.1	7.6
12H 4H					6.0	6.4	6.4	6.8	7.2	6.1	6.6	6.5	6.9	7.3
6H					6.1	6.4	6.5	6.8	7.3	6.2	6.5	6.6	7.0	7.4
8H					6.2	6.5	6.6	6.9	7.4	6.3	6.6	6.7	7.0	7.5
Variations with the observer position at spacings(CIE Pub.117):														
S = 1.0H					+ 2.2 / - 2.2					+ 2.9 / - 2.9				
1.5H					+ 3.4 / - 2.2					+ 4.5 / - 2.0				
2.0H					+ 2.1 / - 3.1					+ 1.8 / - 2.1				

CIE Pub.117, 3000 lm Total Lamp Luminous Flux Correct ($8\log(F/F_0) = 3.8$)
Area: 0.1 m²

H(β) Range:-90 - 90DEG
H(β) Interval: 0.5DEG
Test Speed: MEDIUM
Temperature:25.3°C
Operators:ZT
Test Date:2024-01-23

V(B) Range:-85 - 85DEG
V(B) Interval: 2.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.265
Humidity:65.0%
Test Distance:10.722m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

NAME: BL7069-C40-3-50-NS	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

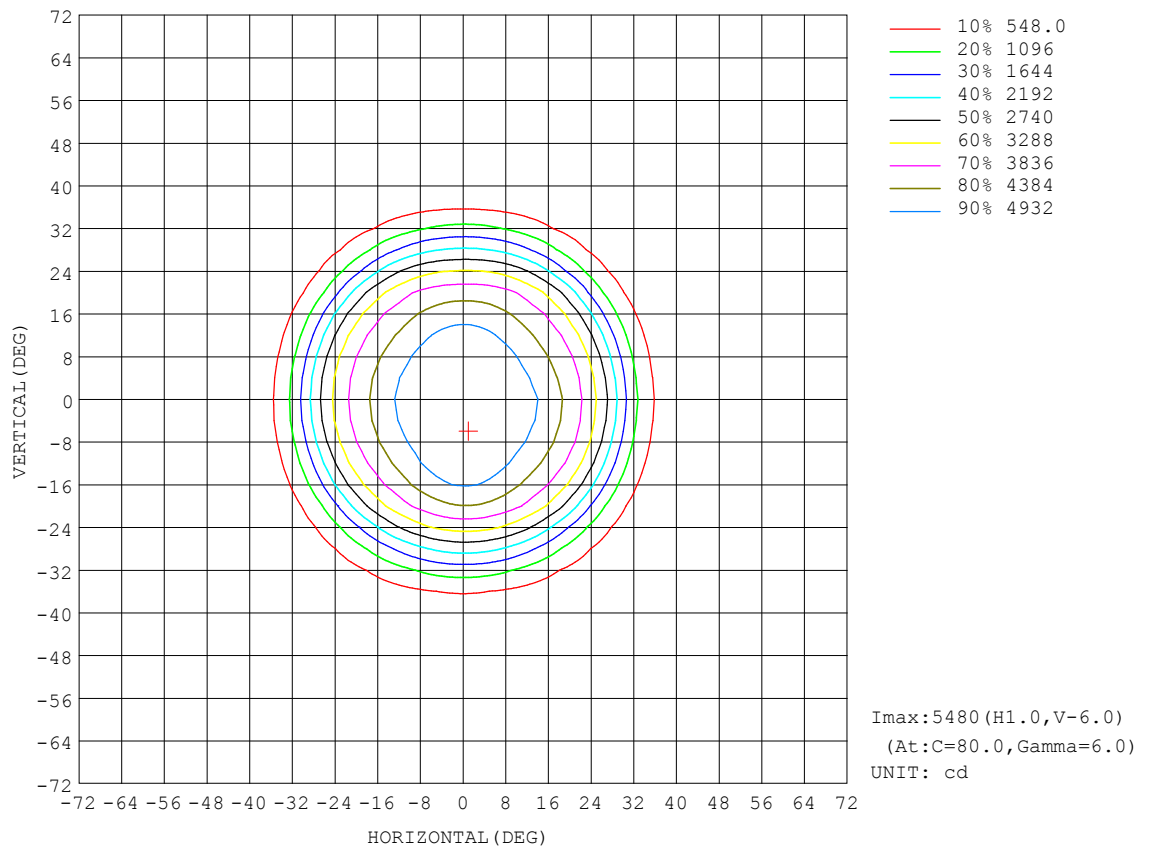
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	116	108	103	115	107	103	114	107	103	98
0.80	125	118	113	124	117	113	123	117	112	108
1.00	131	124	119	130	123	119	128	123	118	113
1.25	136	129	125	134	128	124	132	127	123	118
1.50	139	133	129	138	132	128	135	130	127	121
2.00	142	137	133	141	136	132	137	133	130	123
2.50	145	140	136	143	138	135	138	135	132	125
3.00	147	142	139	144	140	137	140	137	134	126
4.00	149	146	143	146	143	141	142	139	137	128
5.00	151	148	146	148	145	143	143	141	139	130
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004				Suspended				SHRNOM = 1.25		

H(β) Range: -90 - 90DEG
H(β) Interval: 0.5DEG
Test Speed: MEDIUM
Temperature: 25.3°C
Operators: ZT
Test Date: 2024-01-23

V(B) Range: -85 - 85DEG
V(B) Interval: 2.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.265
Humidity: 65.0%
Test Distance: 10.722m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

NAME: BL7069-C40-3-50-NS	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

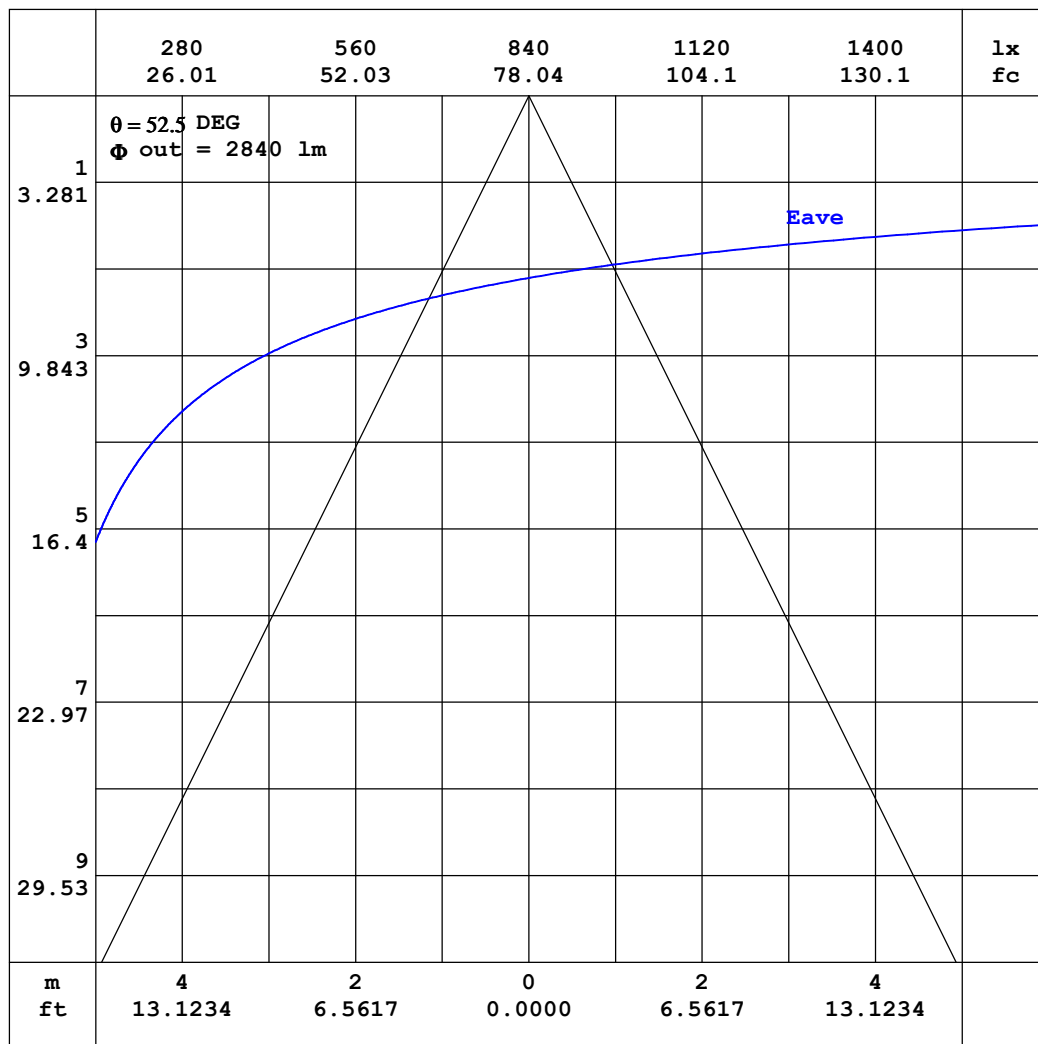


H(β) Range: -90 - 90DEG
H(β) Interval: 0.5DEG
Test Speed: MEDIUM
Temperature: 25.3°C
Operators: ZT
Test Date: 2024-01-23

V(B) Range: -85 - 85DEG
V(B) Interval: 2.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.265
Humidity: 65.0%
Test Distance: 10.722m [K=1.0000]
Remarks:

AAI CURVES

NAME: BL7069-C40-3-50-NS	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



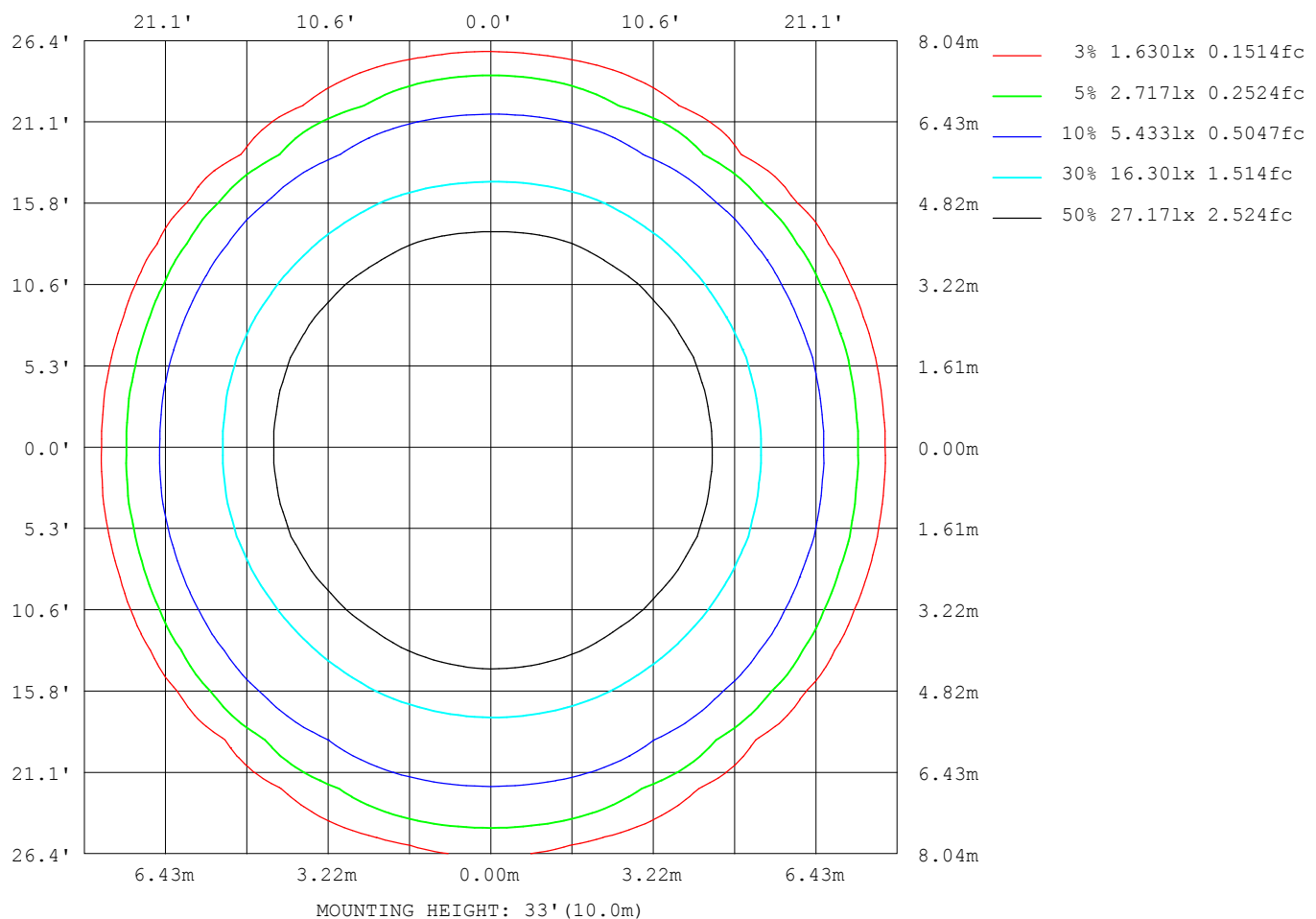
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

H(β) Range: -90 - 90DEG
 H(β) Interval: 0.5DEG
 Test Speed: MEDIUM
 Temperature: 25.3°C
 Operators: ZT
 Test Date: 2024-01-23

V(B) Range: -85 - 85DEG
 V(B) Interval: 2.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.265
 Humidity: 65.0%
 Test Distance: 10.722m [K=1.0000]
 Remarks:

ISOLUX DIAGRAM

NAME: BL7069-C40-3-50-NS	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



H(β) Range:-90 - 90DEG
H(β) Interval: 0.5DEG
Test Speed: MEDIUM
Temperature:25.3°C
Operators:ZT
Test Date:2024-01-23

V(B) Range:-85 - 85DEG
V(B) Interval: 2.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.265
Humidity:65.0%
Test Distance:10.722m [K=1.0000]
Remarks:

LED Avg.L Report

NAME: BL7069-C40-3-50-NS	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

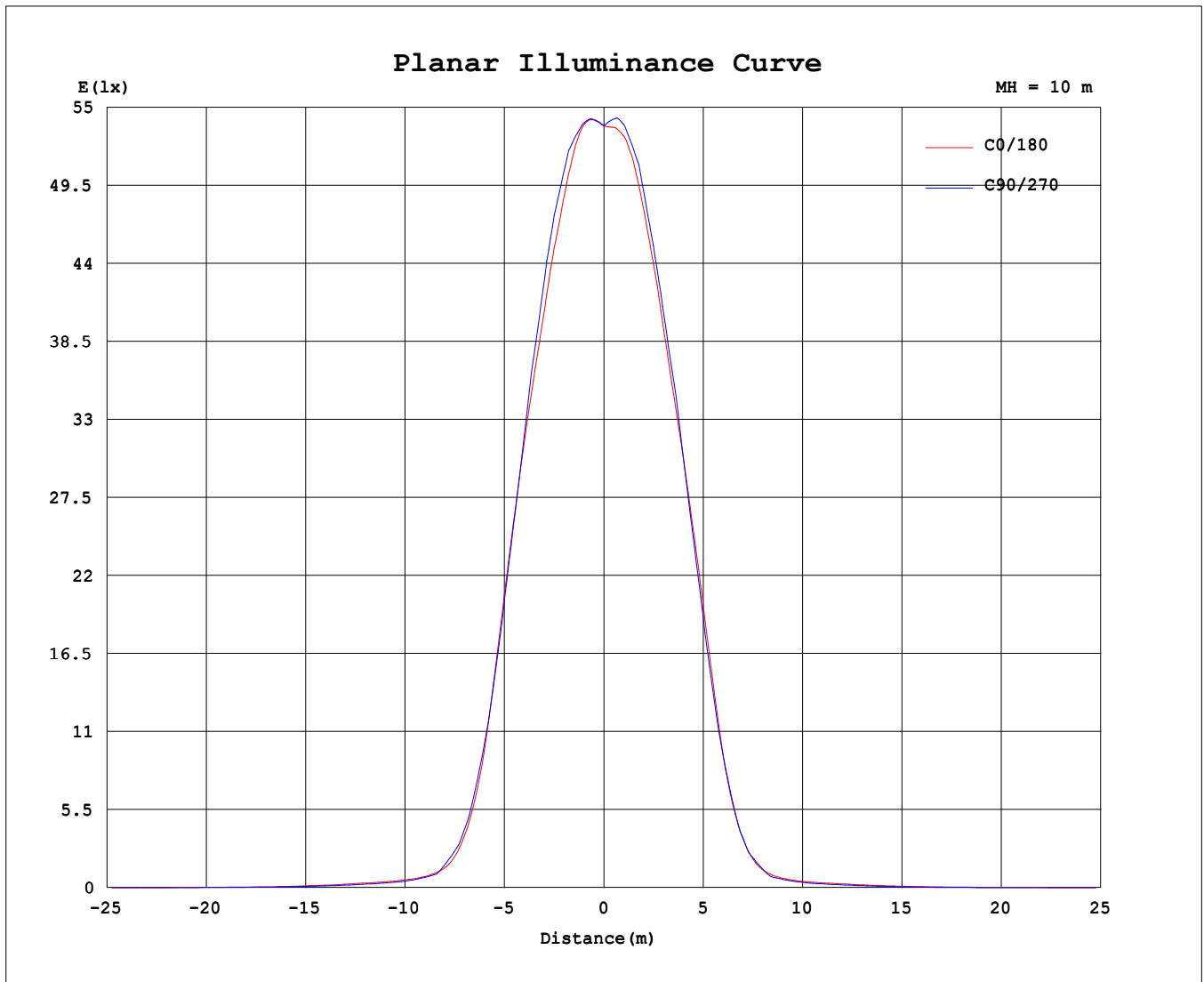
AvgL	cd/m2
L_0~180 (65) av	705
L_0~180 (75) av	642
L_0~180 (85) av	1459
L_90~270 (65) av	378
L_90~270 (75) av	281
L_90~270 (85) av	325
L_45 (65) av	373
L_45 (75) av	271
L_45 (85) av	600

Standard: GB/T 29293-2012

H(β) Range:-90 - 90DEG
H(β) Interval: 0.5DEG
Test Speed: MEDIUM
Temperature:25.3℃
Operators:ZT
Test Date:2024-01-23

V(B) Range:-85 - 85DEG
V(B) Interval: 2.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.265
Humidity:65.0%
Test Distance:10.722m [K=1.0000]
Remarks:

Planar Illuminance Curve



H(β) Range:-90 - 90DEG
H(β) Interval: 0.5DEG
Test Speed: MEDIUM
Temperature:25.3°C
Operators:ZT
Test Date:2024-01-23

V(B) Range:-85 - 85DEG
V(B) Interval: 2.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.265
Humidity:65.0%
Test Distance:10.722m [K=1.0000]
Remarks:

```
V(B) Range:-85 - 85DEG
V(B) Interval: 2.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.265
Humidity:65.0%
Test Distance:10.722m [K=1.0000]
Remarks:
```

NAME: BL7069-C40-3-50-NS	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

UNIT: cd

[illegible]

V(B) Range:-85 - 85DEG
V(B) Interval: 2.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.265
Humidity:65.0%
Test Distance:10.722m [K=1.0000]
Remarks:

```
V(B) Range:-85 - 85DEG
V(B) Interval: 2.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.265
Humidity:65.0%
Test Distance:10.722m [K=1.0000]
Remarks:
```

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V(B) Range:-85 - 85DEG
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Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.265
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Remarks:
```