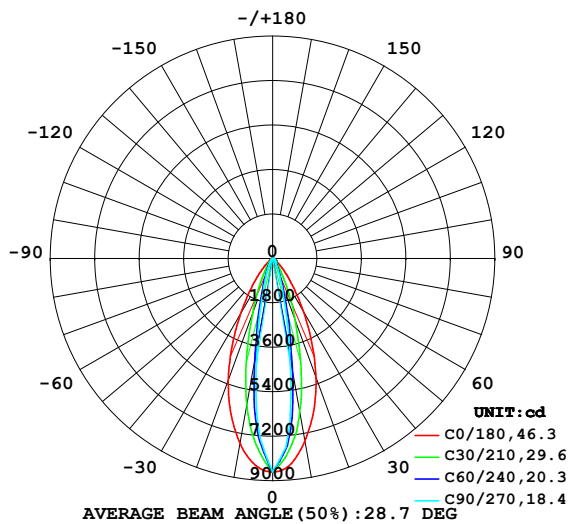


LUMINAIRE PHOTOMETRIC TEST REPORT

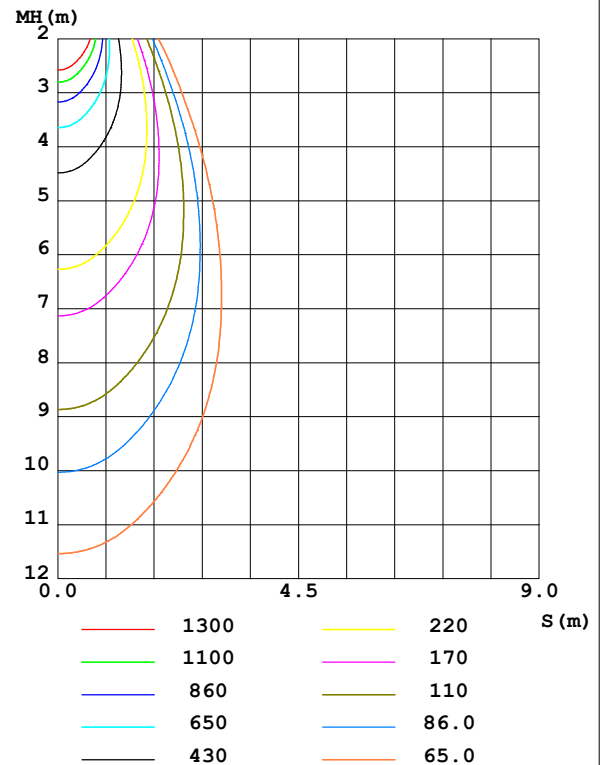
NAME: BL7069-C40-3-2050-NS	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 71.54 lm/W
MODEL		Imax (cd)	8649	S/MH (C0/180)	0.74	
NOMINAL POWER(W)	40	LOR (%)	96.6	S/MH (C90/270)	0.31	
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	2897.5	η UP,DN (C0-180)	0.0,50.1	
NOMINAL FLUX(lm)	3000	CIE CLASS	DIRECT	η UP,DN (C180-360)	0.0,46.5	
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	0.00	
TEST VOLTAGE (V)	220.0	η down (%)	96.6	CIBSE SHR MAX	0.30	

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°C
Operators:ZT
Test Date:2024-01-20

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	7514	5459	3999	5658	7606	5057	3536	5192	0- 10	650.5	650.5	22.5, 21.7
20	5142	1670	923.8	1778	5265	1470	820.2	1594	10- 20	993.6	1644	56.7, 54.8
30	2526	516.6	306.5	551.9	2620	458.6	270.0	486.4	20- 30	671.6	2316	79.9, 77.2
40	944.9	181.5	130.1	193.6	954.4	160.7	115.3	166.0	30- 40	336.3	2652	91.5, 88.4
50	265.9	80.00	59.08	77.83	246.0	63.26	51.21	73.36	40- 50	146.0	2798	96.6, 93.3
60	123.3	36.43	27.96	36.57	91.39	28.67	21.17	29.27	50- 60	58.49	2856	98.6, 95.2
70	51.71	14.40	14.45	14.40	42.47	8.357	8.233	9.922	60- 70	27.52	2884	99.5, 96.1
80	9.364	6.420	6.824	6.963	15.77	2.420	2.325	3.029	70- 80	10.02	2894	99.9, 96.5
90	4.591	0	0	0	5.467	0	0	0	80- 90	3.459	2897	100, 96.6
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): 2741.2 lm

%lum = 94.6%

%lamp = 91.4%

Conical surface Flux(120deg): 2856.4 lm

%lum = 98.6%

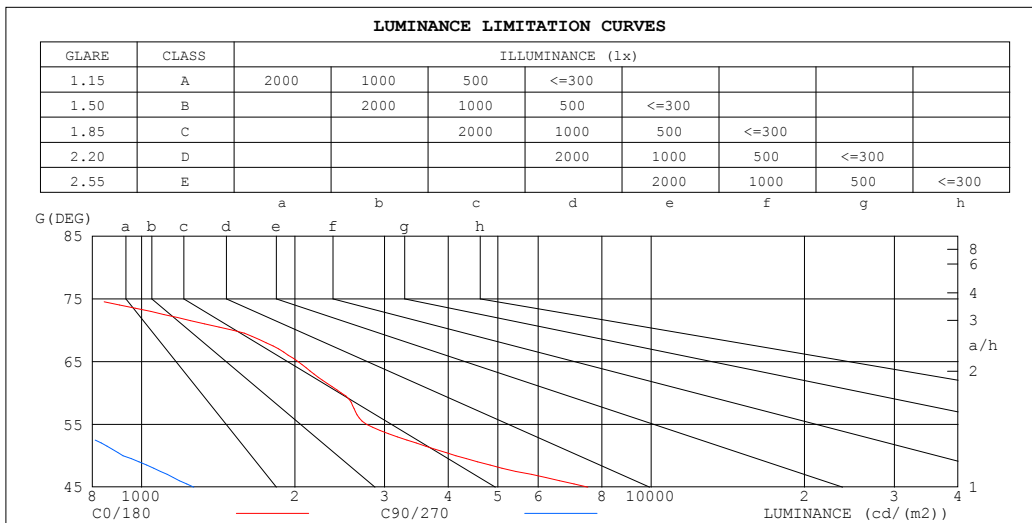
%lamp = 95.2%

H(β) Range:-90 - 90DEG
H(β) Interval: 0.5DEG
Test Speed: MEDIUM
Temperature:25.3°C
Operators:ZT
Test Date:2024-01-20

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: ET7069-C40-3-2050-NS	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	748	322
80	539	393
75	788	386
70	1512	423
65	2028	481
60	2466	559
55	2763	705
50	4137	919
45	7513	1265

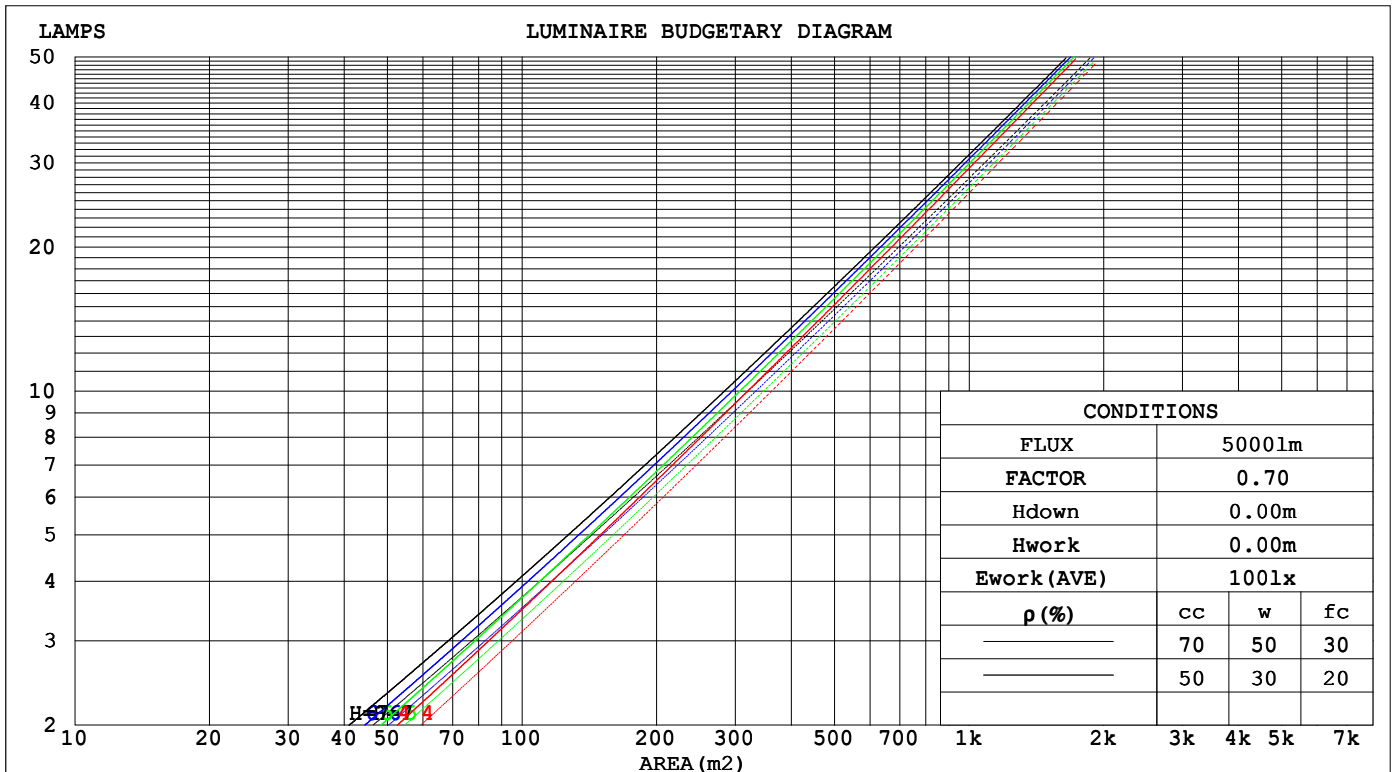
H(β) Range:-90 - 90DEG
H(β) Interval: 0.5DEG
Test Speed: MEDIUM
Temperature:25.3°C
Operators:ZT
Test Date:2024-01-20

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: ET7069-C40-3-2050-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															



H(β) Range:-90 - 90DEG
H(β) Interval: 0.5DEG
Test Speed: MEDIUM
Temperature:25.3°C
Operators:ZT
Test Date:2024-01-20

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: ET7069-C40-3-2050-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	.160	.091	.029	.154	.088	.028	.141	.081	.026	.130	.075	.024	.120	.070	.022		
2.0	.151	.083	.025	.146	.080	.025	.136	.076	.023	.127	.071	.022	.118	.067	.021		
3.0	.143	.076	.023	.138	.074	.022	.130	.070	.021	.122	.067	.020	.114	.063	.020		
4.0	.135	.070	.021	.131	.069	.020	.124	.066	.020	.117	.063	.019	.111	.060	.018		
5.0	.128	.065	.019	.124	.064	.019	.118	.061	.018	.112	.059	.018	.107	.057	.017		
6.0	.121	.061	.017	.118	.060	.017	.113	.058	.017	.108	.056	.016	.103	.054	.016		
7.0	.115	.057	.016	.113	.056	.016	.108	.055	.016	.103	.053	.015	.099	.051	.015		
8.0	.110	.054	.015	.108	.053	.015	.103	.052	.015	.099	.050	.015	.095	.049	.014		
9.0	.105	.051	.014	.103	.050	.014	.099	.049	.014	.096	.048	.014	.092	.047	.014		
10.0	.100	.048	.013	.099	.048	.013	.095	.047	.013	.092	.046	.013	.089	.045	.013		

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	.184	.184	.184	.157	.157	.157	.107	.107	.107	.062	.062	.062	.020	.020	.020	
1.0	.165	.152	.141	.141	.130	.121	.096	.090	.084	.055	.052	.049	.018	.017	.016	
2.0	.149	.128	.110	.128	.110	.095	.087	.076	.067	.050	.044	.039	.016	.014	.013	
3.0	.136	.110	.088	.117	.095	.077	.080	.066	.054	.046	.038	.032	.015	.012	.010	
4.0	.125	.095	.072	.108	.082	.063	.074	.057	.044	.043	.034	.026	.014	.011	.009	
5.0	.116	.084	.060	.100	.072	.052	.069	.051	.037	.040	.030	.022	.013	.010	.007	
6.0	.109	.074	.050	.093	.065	.044	.064	.045	.031	.037	.027	.018	.012	.009	.006	
7.0	.102	.067	.043	.088	.058	.037	.061	.041	.026	.035	.024	.016	.011	.008	.005	
8.0	.096	.061	.037	.083	.053	.032	.057	.037	.023	.033	.022	.013	.011	.007	.004	
9.0	.091	.056	.032	.078	.048	.028	.054	.034	.020	.032	.020	.012	.010	.007	.004	
10.0	.086	.051	.028	.074	.044	.024	.051	.031	.017	.030	.018	.010	.010	.006	.003	

H(β) Range:-90 - 90DEG
H(β) Interval: 0.5DEG
Test Speed: MEDIUM
Temperature:25.3°C
Operators:ZT
Test Date:2024-01-20

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: ET7069-C40-3-2050-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					10.2	11.1	10.5	11.2	11.4	1.4	2.2	1.6	2.4	2.6
3H					10.4	11.1	10.6	11.3	11.5	1.7	2.5	2.0	2.7	2.9
4H					10.3	11.1	10.6	11.3	11.5	1.9	2.6	2.1	2.8	3.0
6H					10.3	11.0	10.6	11.2	11.4	2.0	2.7	2.3	2.9	3.2
8H					10.2	10.9	10.5	11.2	11.4	2.1	2.8	2.4	3.0	3.3
12H					10.2	10.9	10.5	11.1	11.4	2.2	2.8	2.5	3.1	3.4
4H 2H					10.0	10.8	10.3	11.0	11.2	1.7	2.4	1.9	2.6	2.8
3H					10.2	10.8	10.5	11.1	11.3	2.1	2.7	2.4	3.0	3.3
4H					10.1	10.7	10.5	11.0	11.3	2.3	2.9	2.6	3.2	3.5
6H					10.1	10.6	10.4	10.9	11.3	2.5	3.0	2.9	3.4	3.7
8H					10.0	10.5	10.4	10.9	11.2	2.7	3.1	3.1	3.5	3.9
12H					10.0	10.5	10.4	10.8	11.2	2.8	3.2	3.2	3.6	4.0
8H 4H					10.0	10.5	10.4	10.8	11.2	2.3	2.8	2.7	3.2	3.5
6H					9.9	10.3	10.4	10.7	11.1	2.7	3.1	3.1	3.4	3.9
8H					9.9	10.3	10.4	10.7	11.1	2.9	3.2	3.3	3.6	4.1
12H					9.9	10.2	10.4	10.7	11.1	3.1	3.4	3.6	3.8	4.3
12H 4H					9.9	10.4	10.4	10.8	11.1	2.3	2.7	2.7	3.1	3.5
6H					9.9	10.2	10.3	10.7	11.1	2.7	3.0	3.1	3.4	3.9
8H					9.9	10.2	10.4	10.6	11.1	2.9	3.2	3.4	3.7	4.1
Variations with the observer position at spacings(CIE Pub.117):														
S = 1.0H					+ 4.8 / - 5.0					+ 1.0 / - 1.3				
1.5H					+ 6.4 / - 6.1					+ 1.2 / - 1.1				
2.0H					+ 6.9 / - 5.4					+ 1.6 / - 1.1				

CIE Pub.117, 3000 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 3.8)
Area: 0.1 m2

H(β) Range:-90 - 90DEG
H(β) Interval: 0.5DEG
Test Speed: MEDIUM
Temperature:25.3℃
Operators:ZT
Test Date:2024-01-20

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: ET7069-C40-3-2050-NS	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

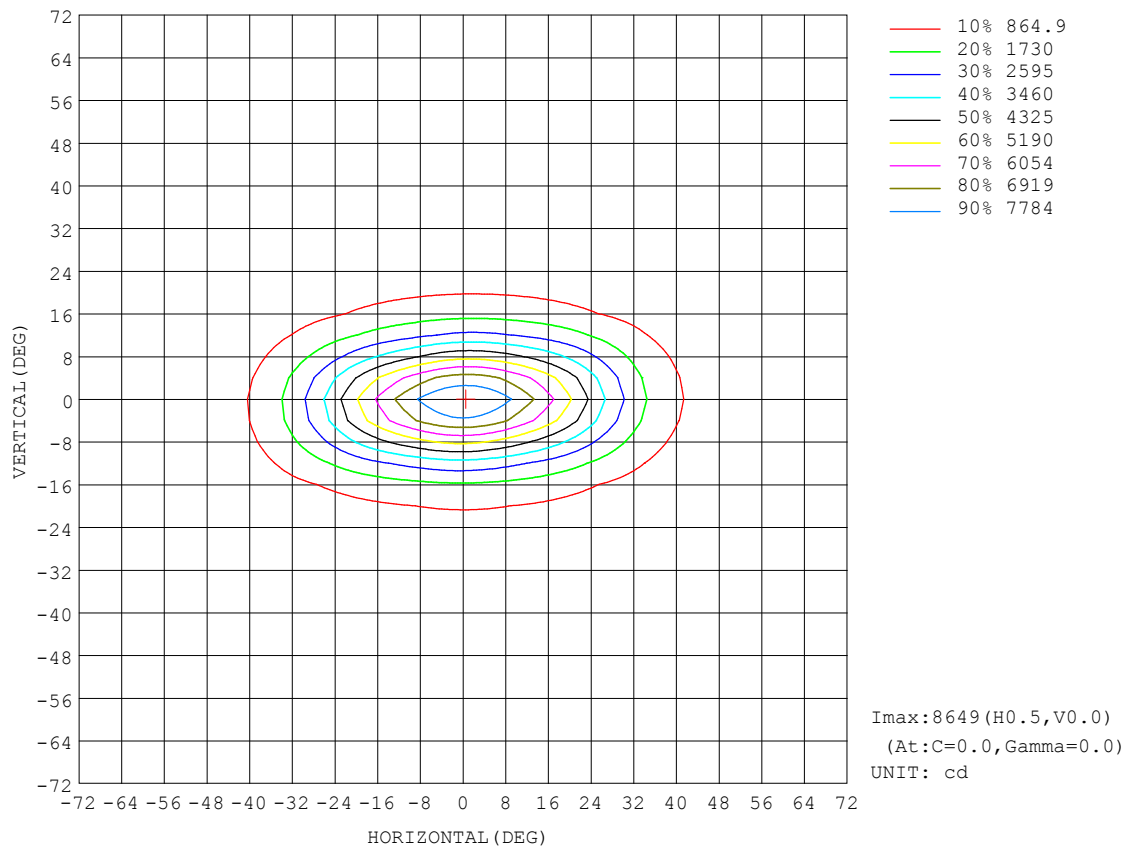
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	83	77	73	83	77	73	82	76	73	69
0.80	91	85	81	90	84	81	89	84	81	77
1.00	95	90	86	94	89	86	93	89	85	81
1.25	99	94	90	98	93	90	96	92	89	85
1.50	102	97	94	101	96	93	98	95	92	88
2.00	104	100	97	103	99	96	100	97	95	90
2.50	106	102	99	105	101	99	102	99	97	91
3.00	108	104	102	106	103	101	103	100	98	92
4.00	110	107	105	108	105	103	104	102	101	94
5.00	111	109	107	109	107	105	105	104	102	95
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: 2024-01-20

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: ET7069-C40-3-2050-NS	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

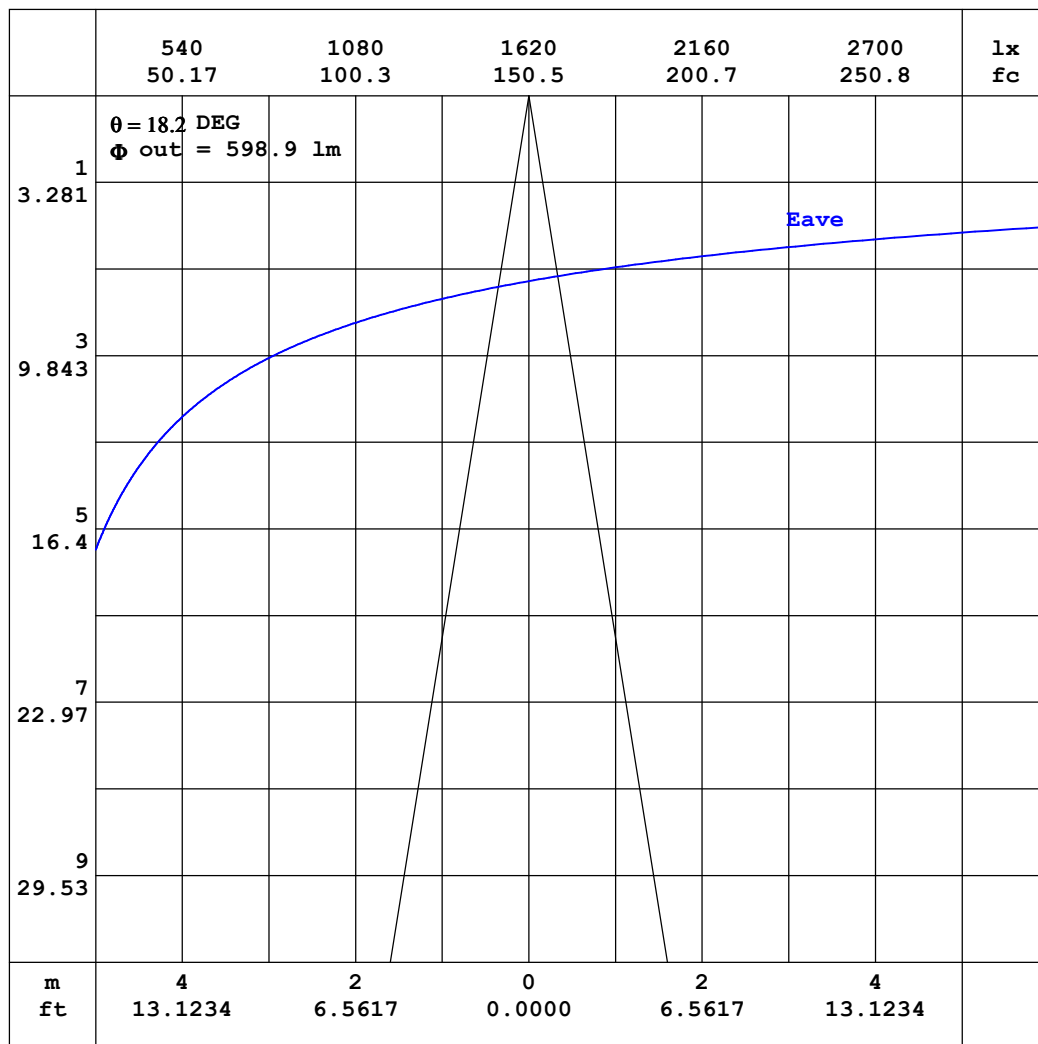


H(β) Range: -90 - 90DEG
H(β) Interval: 0.5DEG
Test Speed: MEDIUM
Temperature: 25.3°C
Operators: ZT
Test Date: 2024-01-20

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: ET7069-C40-3-2050-NS	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



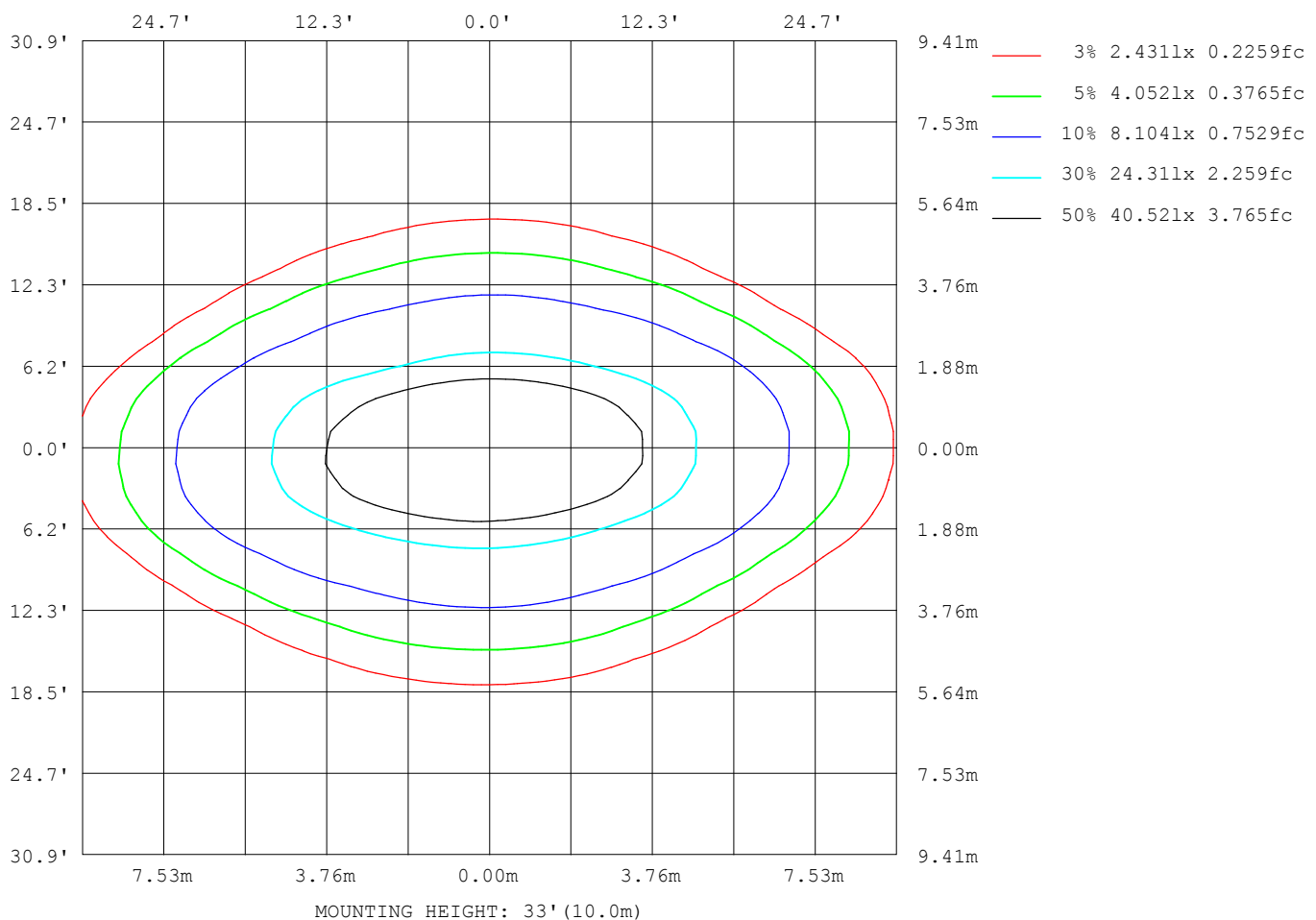
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

H(β) Range: -90 - 90DEG
H(β) Interval: 0.5DEG
Test Speed: MEDIUM
Temperature: 25.3°C
Operators: ZT
Test Date: 2024-01-20

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: ET7069-C40-3-2050-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:2024-01-20

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: ET7069-C40-3-2050-NS	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

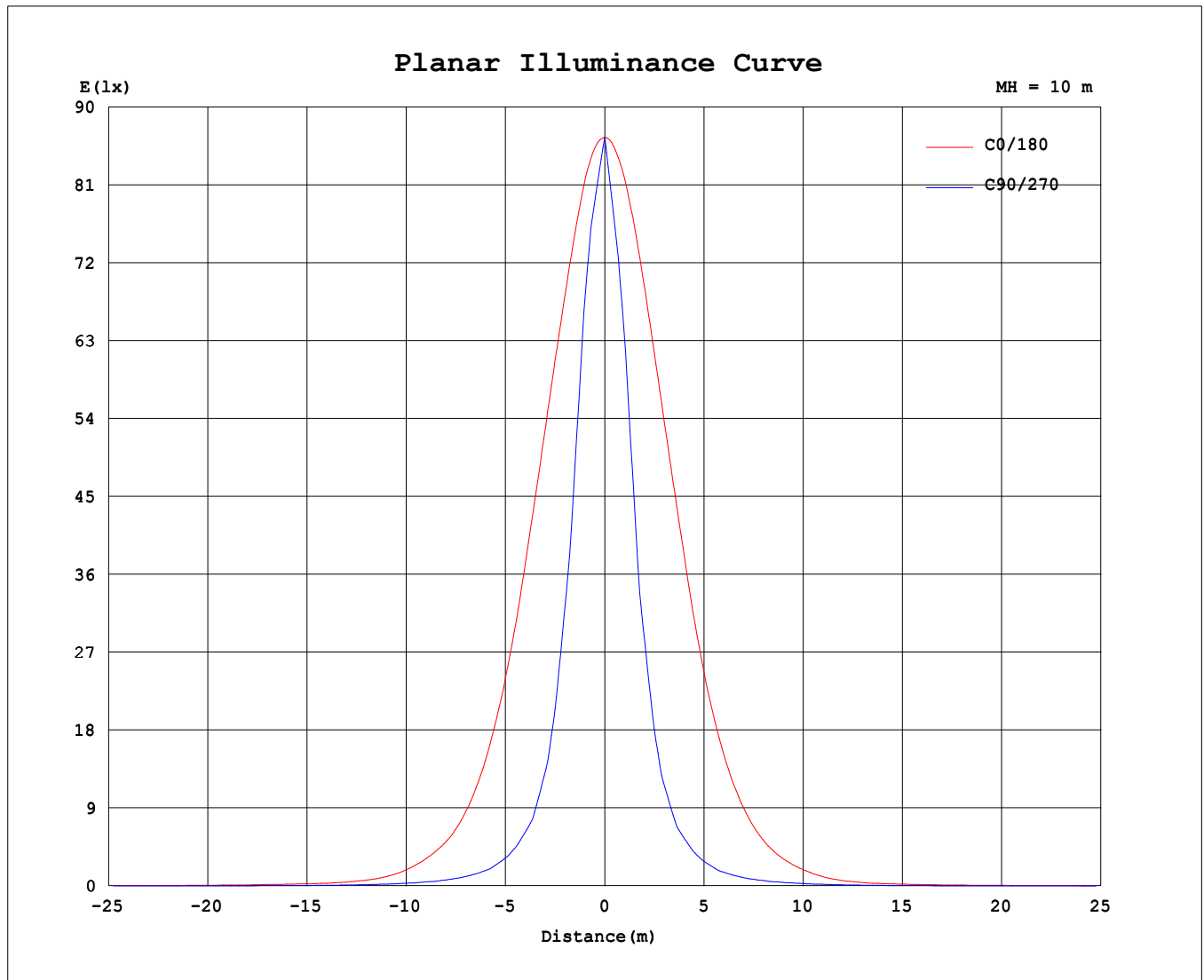
AvgL	cd/m2
L_0~180 (65) av	1796
L_0~180 (75) av	861
L_0~180 (85) av	1200
L_90~270 (65) av	406
L_90~270 (75) av	275
L_90~270 (85) av	227
L_45 (65) av	459
L_45 (75) av	275
L_45 (85) av	439

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:2024-01-20

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:2024-01-20

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:

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: ET7069-C40-3-2050-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: