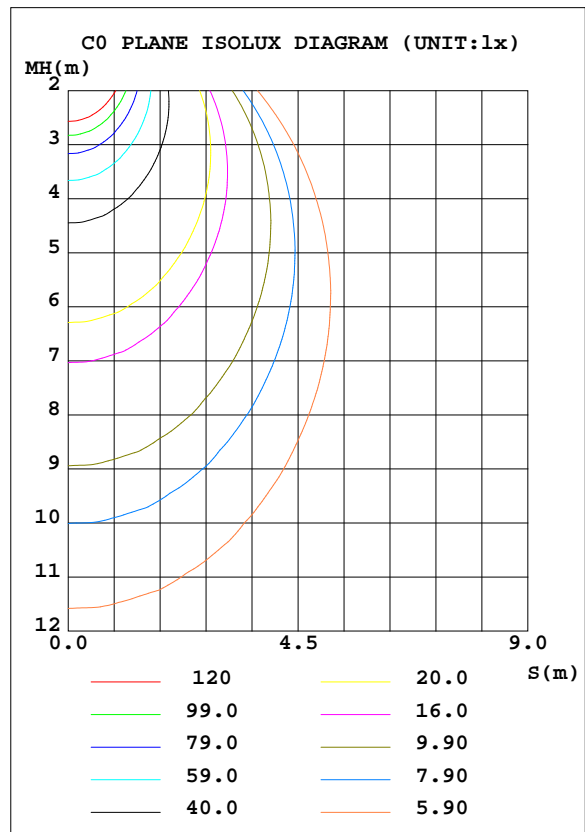
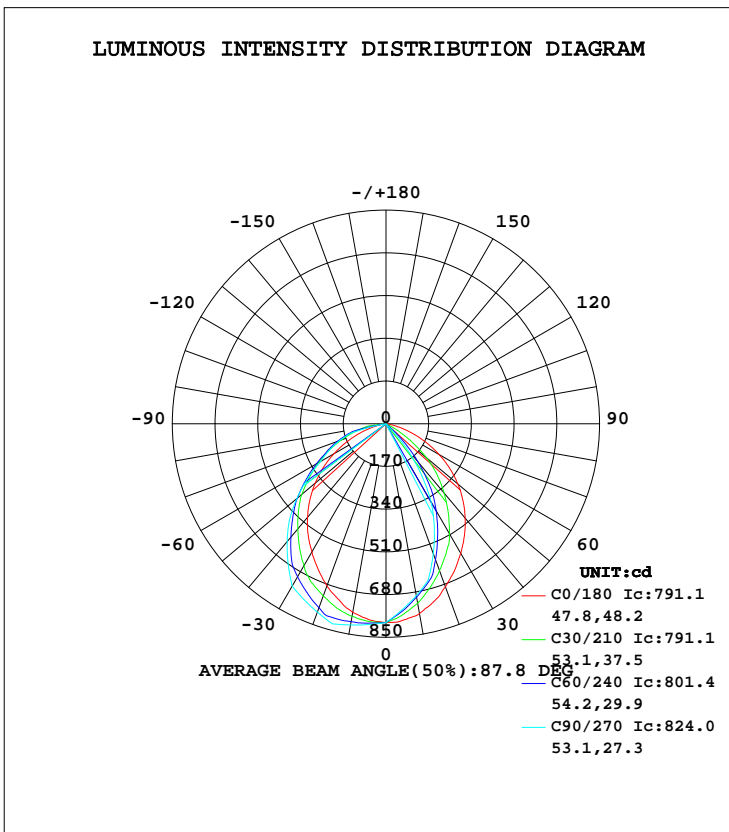


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:11.99V I:0.5926A P:6.674W PF:0.9394 Lamp Flux:235x1 lm		
NAME: 489940 BILTMORE 7W 2700K	TYPE:489940 BILTMORE 7W 2700K	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 91.87 lm/W			
MODEL	BILTMORE 7W 2700K	Imax(cd)	824.0	S/MH(C0/180)	1.13
NOMINAL POWER(W)	7	LOR(%)	260.9	S/MH(C90/270)	1.35
RATED VOLTAGE(V)	12	TOTAL FLUX(lm)	1565.5	η UP, DN(C0-180)	0.0,83.9
NOMINAL FLUX(lm)	600	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.0,177.0
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	1.00
TEST VOLTAGE(V)	12	η down(%)	260.9	CIBSE SHR MAX	1.15



C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:20DEG
Operators:Y
Test Date:2024-04-28

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.291
Humidity:65.0%
Test Distance:8.750m [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
5	784.6	754.8	742.8	752.0	782.7	793.5	802.1	796.6	0- 5	18.67	18.67	1.19,3.11
10	767.2	710.2	694.5	706.5	762.0	789.9	813.1	792.7	5- 10	54.60	73.28	4.68,12.2
15	733.2	659.9	646.2	657.5	725.6	779.9	824.0	784.3	10- 15	87.58	160.9	10.3,26.8
20	691.0	605.6	550.7	604.0	687.0	764.4	798.1	767.4	15- 20	115.7	276.5	17.7,46.1
25	645.0	525.3	455.2	525.5	639.0	721.3	772.2	727.3	20- 25	136.5	413.0	26.4,68.8
30	594.9	444.6	359.7	446.7	589.3	674.1	746.3	677.3	25- 30	150.4	563.4	36,93.9
35	544.1	366.4	242.5	370.6	540.0	625.7	679.1	630.8	30- 35	156.9	720.3	46,120
40	490.1	287.1	125.3	294.0	485.6	575.2	611.8	581.1	35- 40	154.5	874.8	55.9,146
45	433.3	189.6	8.096	194.8	428.6	512.3	544.6	515.3	40- 45	144.1	1019	65.1,170
50	373.3	94.20	5.401	97.64	368.0	449.6	462.9	452.2	45- 50	128.6	1148	73.3,191
55	309.9	6.413	2.706	7.642	305.0	390.4	381.2	392.2	50- 55	112.2	1260	80.5,210
60	243.0	3.909	0.0108	4.681	239.5	324.1	299.6	325.6	55- 60	94.37	1354	86.5,226
65	176.1	1.442	0.0289	1.687	174.3	261.7	248.0	262.5	60- 65	75.96	1430	91.4,238
70	112.2	0.0918	0.0470	0.0213	113.1	205.0	196.5	204.9	65- 70	59.07	1489	95.1,248
75	56.15	0.1293	0.0650	0.0735	57.97	153.9	145.0	152.6	70- 75	43.65	1533	97.9,255
80	15.64	0.1301	0	0.0954	16.42	88.98	0	87.20	75- 80	25.99	1559	99.6,260
85	2.354	0	0	0	2.277	0	0	0	80- 85	6.289	1565	100,261
90	0.1951	0	0	0	0	0	0	0	85- 90	0.3786	1566	100,261
95									90- 95			
100									95-100			
105									100-105			
110									105-110			
115									110-115			
120									115-120			
125									120-125			
130									125-130			
135									130-135			
140									135-140			
145									140-145			
150									145-150			
155									150-155			
160									155-160			
165									160-165			
170									165-170			
175									170-175			
180									175-180			
DEG	LUMINOUS INTENSITY:cd								UNIT:lm			

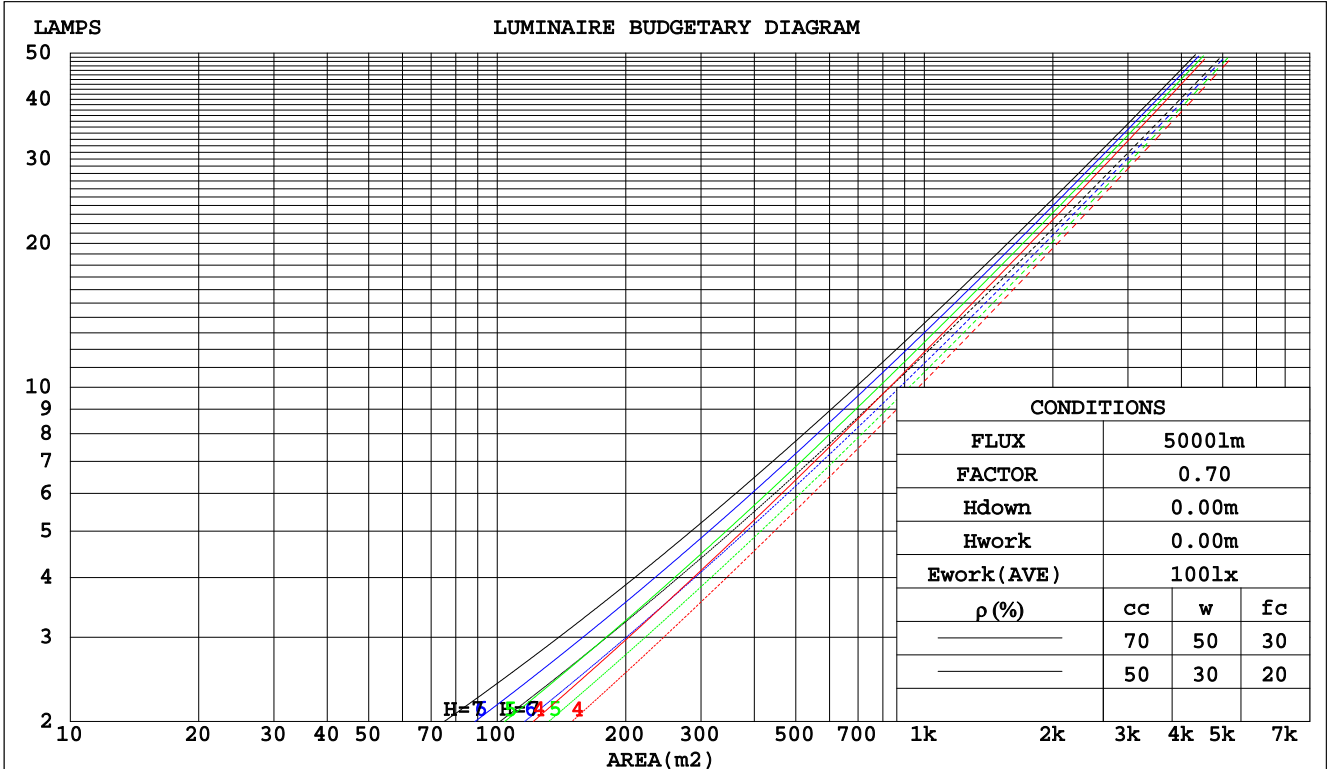
C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:20DEG
Operators:Y
Test Date:2024-04-28

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.291
Humidity:65.0%
Test Distance:8.750m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:11.99V I:0.5926A P:6.674W PF:0.9394 Lamp Flux:235x1 lm		
NAME: 489940 BILTMORE 7W 2700K	TYPE:489940 BILTMORE 7W 2700K	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:

pcc	80%			70%			50%			30%			10%			0
	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pw																0
pfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio															
	Coefficients of Utilization(CU)															
0.0	3.11	3.11	3.11	3.03	3.03	3.03	2.90	2.90	2.90	2.78	2.78	2.78	2.66	2.66	2.66	2.61
1.0	2.77	2.68	2.59	2.71	2.63	2.55	2.60	2.53	2.47	2.50	2.45	2.39	2.41	2.37	2.32	2.27
2.0	2.46	2.30	2.17	2.41	2.27	2.15	2.32	2.20	2.10	2.24	2.14	2.05	2.16	2.08	2.01	1.95
3.0	2.19	2.00	1.85	2.15	1.98	1.83	2.08	1.93	1.80	2.01	1.88	1.77	1.94	1.84	1.74	1.69
4.0	1.97	1.76	1.60	1.94	1.74	1.59	1.87	1.70	1.57	1.81	1.67	1.55	1.76	1.63	1.53	1.48
5.0	1.78	1.56	1.41	1.75	1.55	1.40	1.70	1.52	1.38	1.65	1.49	1.37	1.60	1.46	1.36	1.30
6.0	1.62	1.40	1.25	1.59	1.39	1.24	1.55	1.37	1.23	1.51	1.34	1.22	1.47	1.32	1.21	1.16
7.0	1.48	1.27	1.12	1.46	1.26	1.11	1.42	1.24	1.11	1.38	1.22	1.10	1.35	1.20	1.09	1.04
8.0	1.36	1.15	1.01	1.34	1.14	1.01	1.31	1.13	.00	1.28	1.11	.99	1.25	1.10	.99	.94
9.0	1.25	1.05	.92	1.24	1.05	.91	1.21	1.03	.91	1.18	1.02	.91	1.16	1.01	.90	.86
10.0	1.16	.97	.84	1.15	.96	.84	1.13	.95	.83	1.10	.94	.83	1.08	.93	.83	.78



C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:20DEG
 Operators:Y
 Test Date:2024-04-28

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.291
 Humidity:65.0%
 Test Distance:8.750m [K=1.0000]
 Remarks:

WEC AND CCEC

Test:U:11.99V I:0.5926A P:6.674W PF:0.9394 Lamp Flux:235x1 lm		
NAME: 489940 BILTMORE 7W 2700K	TYPE:489940 BILTMORE 7W 2700K	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION 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						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.689	.392	.124	.671	.383	.122	.637	.365	.117	.606	.349	.112	.577	.334	.108	
2.0	.665	.365	.112	.649	.358	.110	.620	.345	.107	.592	.332	.104	.567	.321	.101	
3.0	.626	.333	.100	.612	.328	.099	.586	.317	.096	.562	.308	.094	.539	.299	.092	
4.0	.585	.304	.089	.573	.300	.089	.550	.291	.087	.528	.284	.086	.508	.276	.084	
5.0	.546	.278	.081	.536	.275	.080	.515	.268	.079	.496	.262	.078	.478	.256	.077	
6.0	.511	.256	.073	.502	.253	.073	.483	.248	.072	.467	.242	.071	.451	.237	.070	
7.0	.479	.237	.067	.471	.235	.067	.455	.230	.066	.439	.225	.066	.425	.221	.065	
8.0	.451	.220	.062	.443	.218	.062	.428	.214	.061	.415	.210	.061	.402	.206	.060	
9.0	.425	.205	.057	.418	.204	.057	.405	.200	.057	.393	.197	.056	.381	.193	.056	
10.0	.401	.192	.053	.395	.191	.053	.383	.188	.053	.372	.185	.053	.362	.182	.052	

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						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.497	.497	.497	.425	.425	.425	.290	.290	.290	.167	.167	.167	.053	.053	.053	
1.0	.462	.408	.360	.395	.351	.310	.271	.241	.214	.156	.140	.125	.050	.045	.040	
2.0	.437	.345	.267	.374	.297	.231	.256	.205	.161	.148	.119	.094	.047	.039	.031	
3.0	.414	.298	.205	.355	.257	.178	.244	.178	.125	.141	.104	.073	.045	.034	.024	
4.0	.393	.262	.162	.337	.226	.141	.232	.158	.099	.134	.092	.059	.043	.030	.019	
5.0	.374	.234	.131	.321	.203	.114	.221	.142	.081	.128	.083	.048	.041	.027	.016	
6.0	.356	.212	.109	.306	.183	.095	.211	.128	.067	.122	.076	.040	.039	.025	.013	
7.0	.338	.194	.092	.291	.168	.080	.201	.118	.057	.117	.069	.034	.038	.023	.011	
8.0	.322	.178	.079	.278	.155	.069	.192	.109	.049	.112	.064	.029	.036	.021	.010	
9.0	.308	.165	.069	.265	.143	.060	.184	.101	.043	.107	.060	.026	.035	.020	.008	
10.0	.294	.154	.061	.253	.134	.053	.176	.094	.038	.102	.056	.023	.033	.018	.008	

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:20DEG
 Operators:Y
 Test Date:2024-04-28

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.291
 Humidity:65.0%
 Test Distance:8.750m [K=1.0000]
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:11.99V I:0.5926A P:6.674W PF:0.9394 Lamp Flux:235x1 lm										
NAME: 489940 BILTMORE 7W 2700K					TYPE:489940 BILTMORE 7W 2700KWEIGHT:					
SPEC.:					DIM.:			SERIAL No.:		
MFR.:					SUR.:			PROTECTION 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	13.9	15.3	14.2	15.5	15.7	4.5	5.8	4.7	6.0	6.2
3H	14.5	15.7	14.8	16.0	16.2	4.2	5.5	4.5	5.7	6.0
4H	14.5	15.7	14.8	16.0	16.2	4.1	5.3	4.4	5.6	5.8
6H	14.5	15.6	14.8	15.9	16.1	4.0	5.2	4.4	5.4	5.7
8H	14.4	15.5	14.7	15.8	16.1	4.0	5.1	4.3	5.3	5.6
12H	14.4	15.4	14.7	15.7	16.0	3.9	5.0	4.3	5.3	5.6
4H 2H	13.6	14.8	13.9	15.0	15.3	4.7	5.9	5.0	6.1	6.4
3H	14.2	15.2	14.5	15.5	15.8	4.5	5.5	4.8	5.8	6.1
4H	14.2	15.2	14.6	15.5	15.8	4.4	5.3	4.7	5.6	5.9
6H	14.2	15.0	14.6	15.4	15.7	4.3	5.1	4.7	5.4	5.8
8H	14.1	14.9	14.5	15.3	15.6	4.2	5.0	4.6	5.4	5.7
12H	14.1	14.8	14.5	15.2	15.6	4.2	4.9	4.6	5.3	5.7
8H 4H	14.1	14.9	14.5	15.2	15.6	4.2	5.0	4.6	5.4	5.7
6H	14.0	14.7	14.5	15.1	15.5	4.1	4.8	4.6	5.2	5.6
8H	14.0	14.6	14.4	15.0	15.4	4.1	4.7	4.5	5.1	5.5
12H	14.0	14.4	14.4	14.9	15.4	4.1	4.5	4.5	5.0	5.5
12H 4H	14.0	14.7	14.4	15.1	15.5	4.2	4.9	4.6	5.3	5.7
6H	14.0	14.6	14.4	15.0	15.4	4.1	4.7	4.5	5.1	5.5
8H	14.0	14.4	14.4	14.9	15.4	4.1	4.5	4.5	5.0	5.5
Variations with the observer position at spacings:										
S = 1.0H	+ 1.2 / - 1.6					+ 2.5 / -22.6				
1.5H	+ 2.3 / - 5.3					+ 3.9 / -17.1				
2.0H	+ 3.5 / -20.1					+ 5.7 / -19.6				

CIE Pub.117 Corrected 600.0 lm Total Lamp Luminous Flux. (8log(F/F0) = -1.8)

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:20DEG
Operators:Y
Test Date:2024-04-28

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.291
Humidity:65.0%
Test Distance:8.750m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:11.99V I:0.5926A P:6.674W PF:0.9394 Lamp Flux:235x1 lm		
NAME: 489940 BILTMORE 7W 2700K	TYPE:489940 BILTMORE 7W 2700K	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:

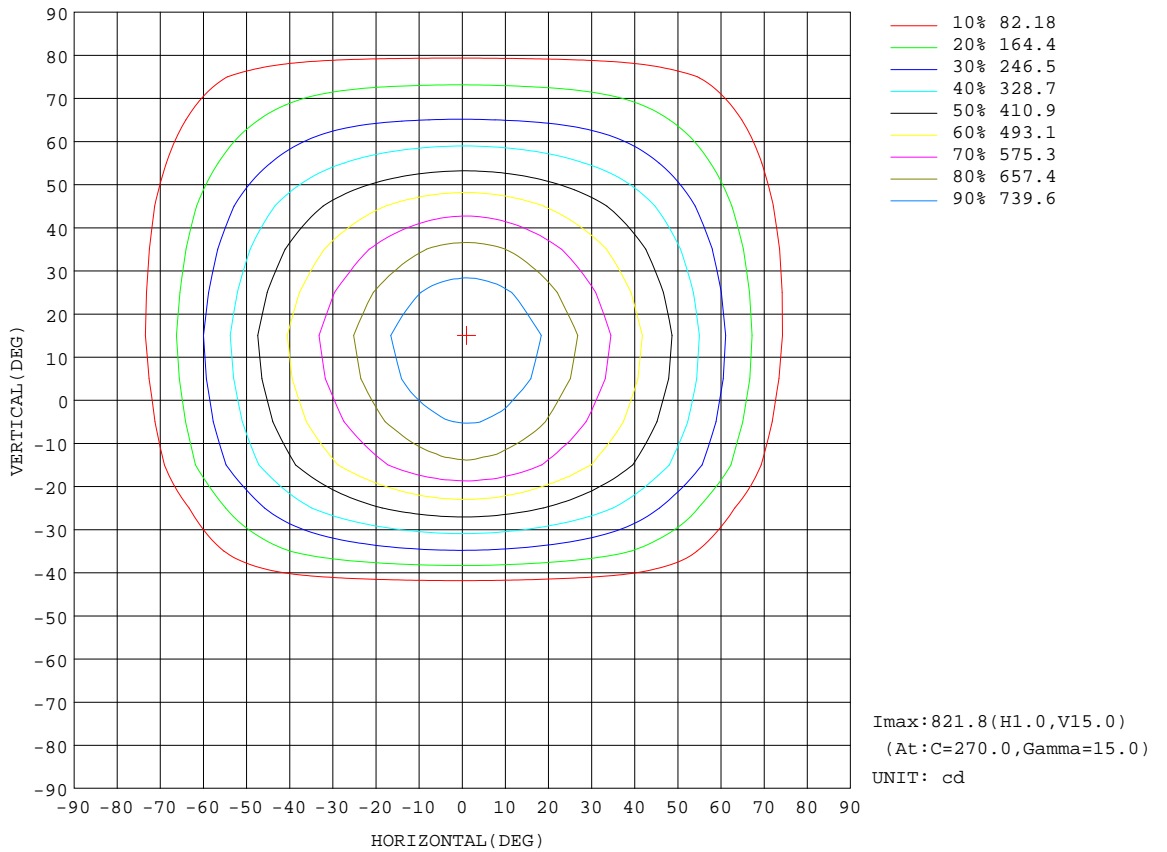
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	167	140	124	165	139	123	163	138	123	108
0.80	193	166	149	190	165	149	186	163	148	132
1.00	214	188	172	211	187	171	205	190	170	153
1.25	231	207	191	227	205	190	221	202	188	171
1.50	243	221	205	239	218	204	231	214	201	183
2.00	258	239	225	254	236	223	245	231	219	201
2.50	267	250	236	262	246	234	252	239	229	209
3.00	274	259	247	269	255	244	259	248	239	218
4.00	283	271	261	277	266	257	267	258	250	228
5.00	289	278	269	282	273	265	271	264	257	234
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNOM = 1.25			

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:20DEG
Operators:Y
Test Date:2024-04-28

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.291
Humidity:65.0%
Test Distance:8.750m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

Test:U:11.99V I:0.5926A P:6.674W PF:0.9394 Lamp Flux:235x1 lm		
NAME: 489940 BILTMORE 7W 2700K	TYPE:489940 BILTMORE 7W 2700K	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:

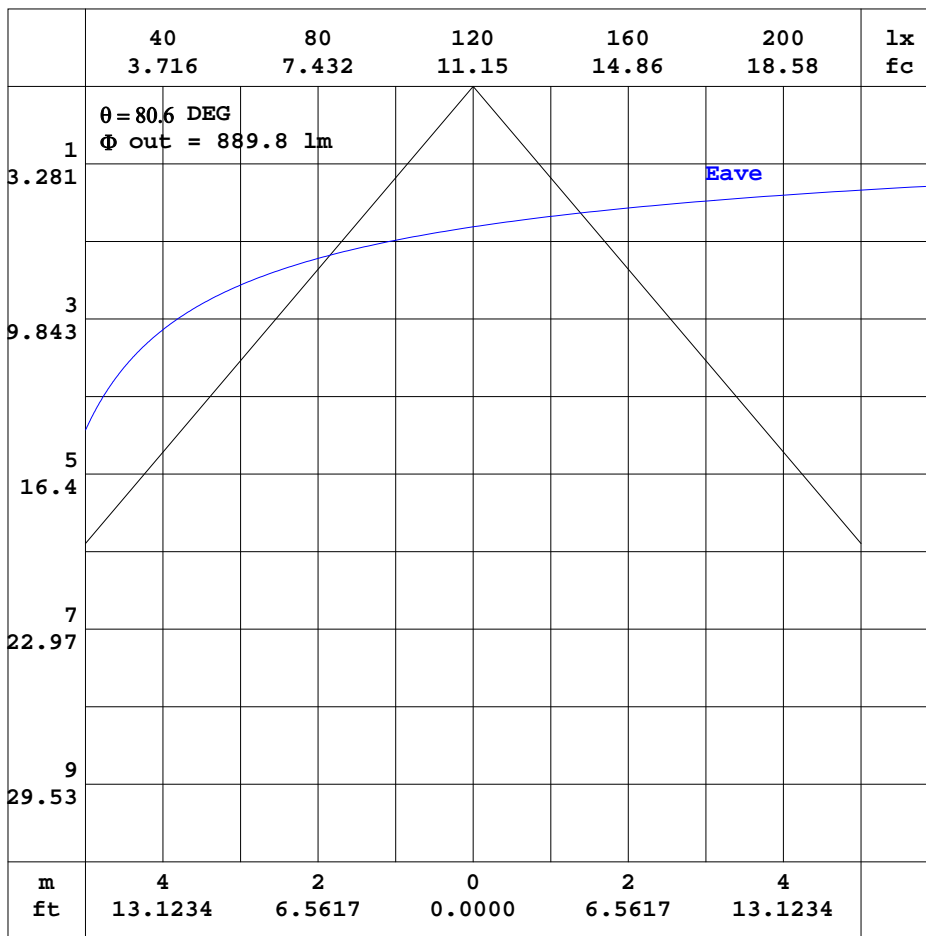


C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature: 20DEG
 Operators: Y
 Test Date: 2024-04-28

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.291
 Humidity: 65.0%
 Test Distance: 8.750m [K=1.0000]
 Remarks:

AAI CURVES

Test:U:11.99V I:0.5926A P:6.674W PF:0.9394 Lamp Flux:235x1 lm		
NAME: 489940 BILTMORE 7W 2700K	TYPE:489940 BILTMORE 7W 2700K	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:



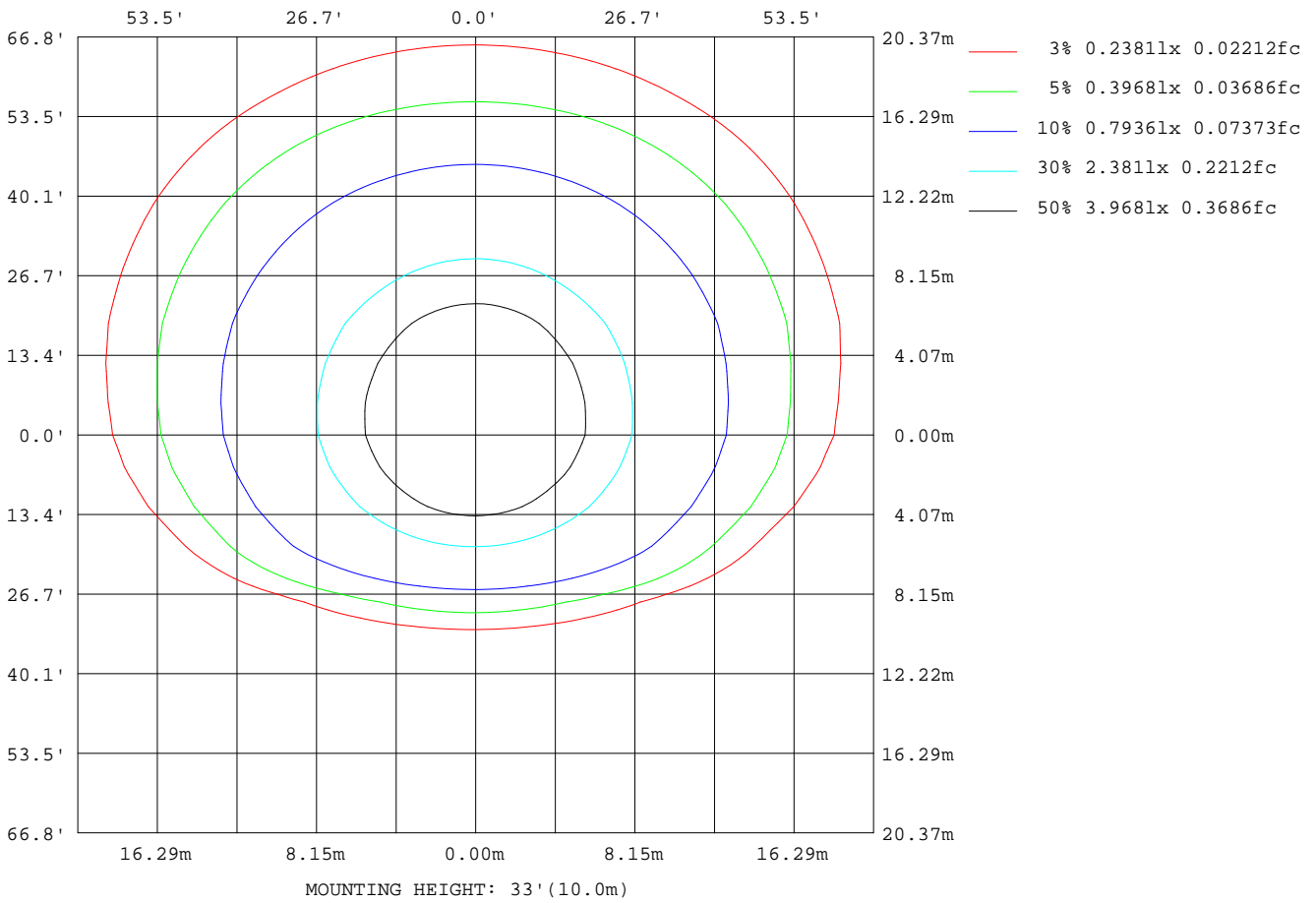
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature: 20DEG
Operators: Y
Test Date: 2024-04-28

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.291
Humidity: 65.0%
Test Distance: 8.750m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

Test:U:11.99V I:0.5926A P:6.674W PF:0.9394 Lamp Flux:235x1 lm		
NAME: 489940 BILTMORE 7W 2700K	TYPE:489940 BILTMORE 7W 2700K	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:



C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:20DEG
 Operators:Y
 Test Date:2024-04-28

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.291
 Humidity:65.0%
 Test Distance:8.750m [K=1.0000]
 Remarks:

LED Avg.L Report

Test:U:11.99V I:0.5926A P:6.674W PF:0.9394 Lamp Flux:235x1 lm		
NAME: 489940 BILTMORE 7W 2700K	TYPE:489940 BILTMORE 7W 2700K	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:

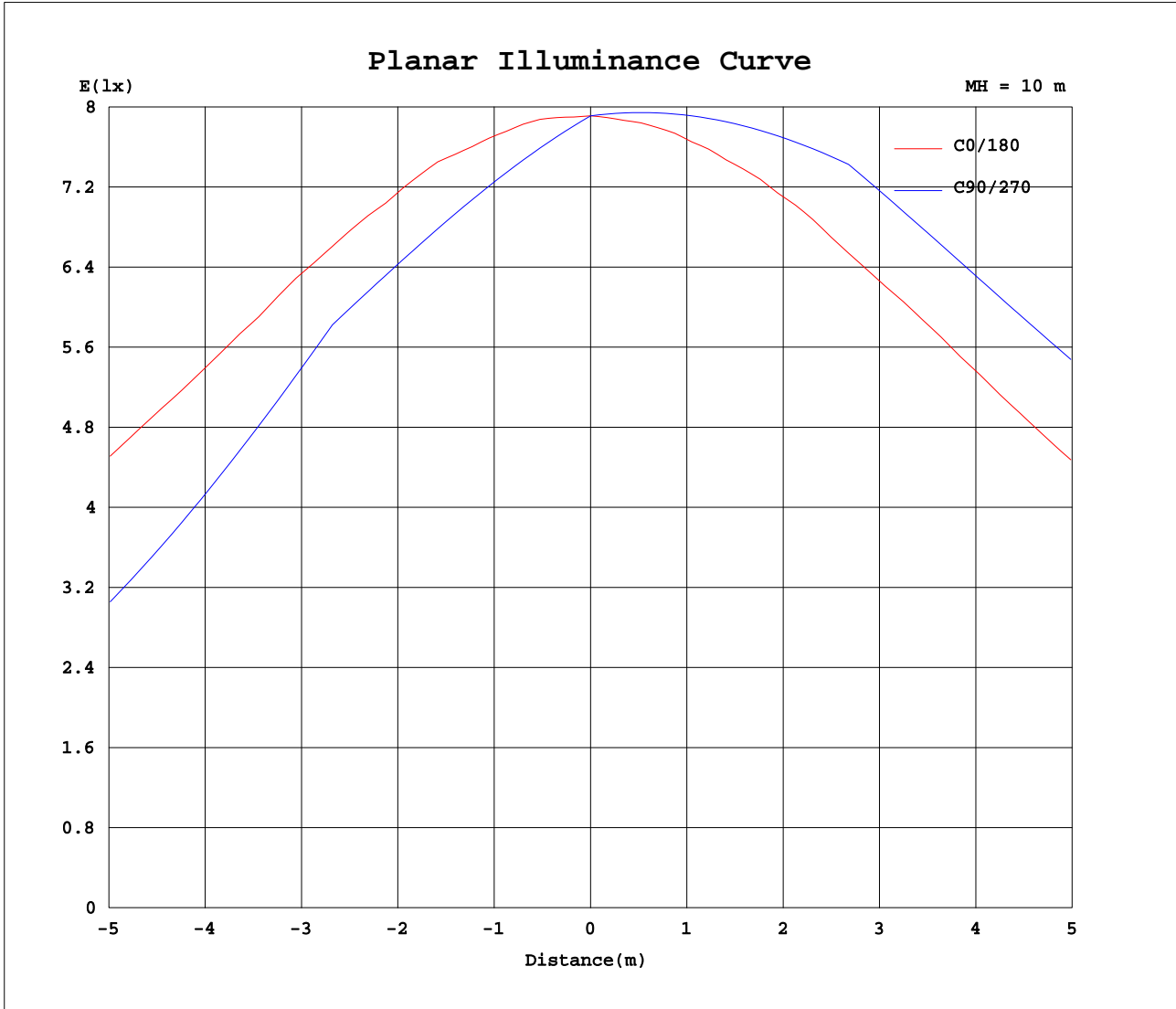
AvgL	cd/m2
L_0~180(65)av	2073
L_0~180(75)av	1102
L_0~180(85)av	133
L_90~270(65)av	1467
L_90~270(75)av	1401
L_90~270(85)av	0
L_45(65)av	1560
L_45(75)av	1481
L_45(85)av	0

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:20DEG
Operators:Y
Test Date:2024-04-28

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.291
Humidity:65.0%
Test Distance:8.750m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature: 20DEG
 Operators: Y
 Test Date: 2024-04-28

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.291
 Humidity: 65.0%
 Test Distance: 8.750m [K=1.0000]
 Remarks:

