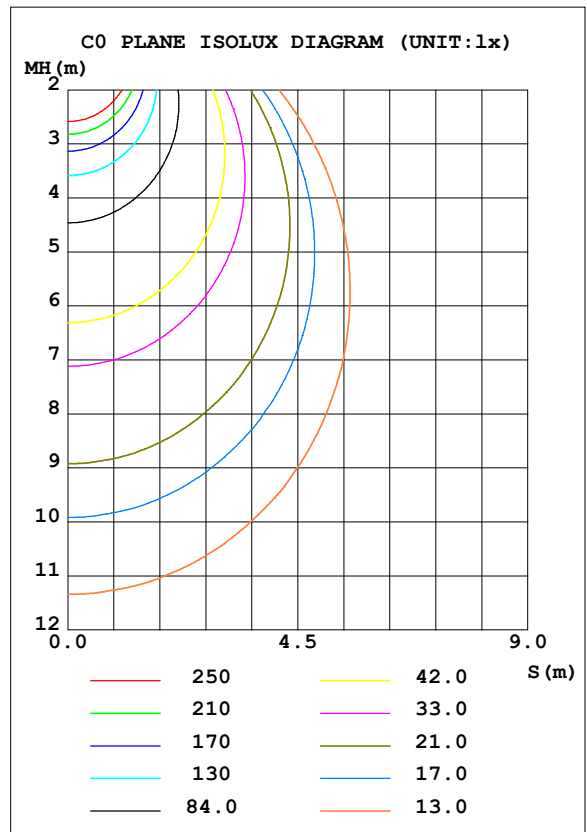
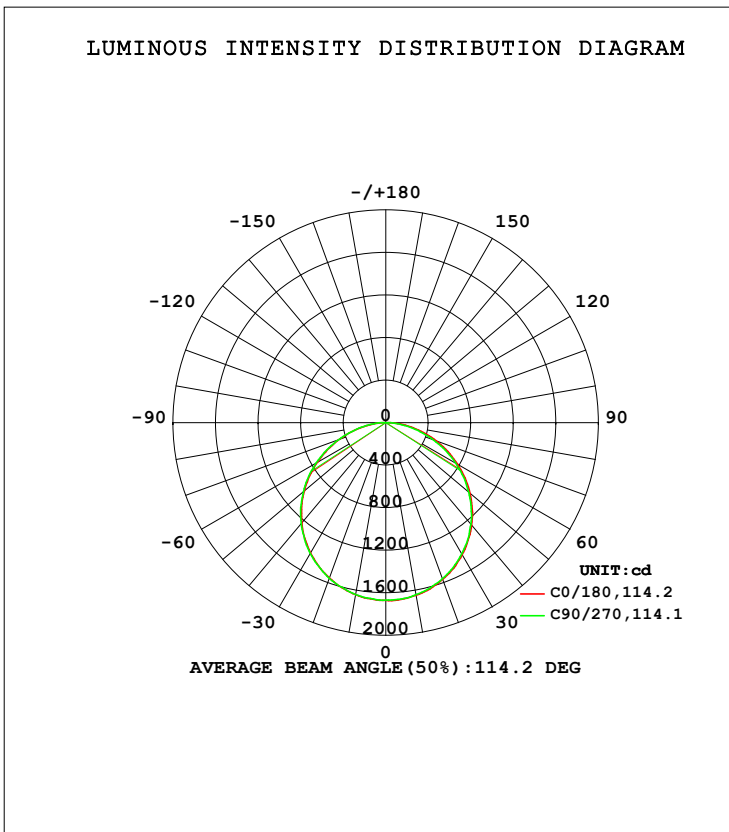


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:240.42V I:0.1746A P:40.852W PF:0.9732 Freq:50.00Hz Lamp Flux:4896.5x1 lm		
NAME: BLP45W-120/60-CW	TYPE:45W	WEIGHT:
SPEC.:6000K	DIM.:	SERIAL No.:
MFR.:	SUR.:1.16*0.55	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA			
MODEL	BLP45W-120/60-CW	Imax (cd)	1674	S/MH (C0/180)	1.28
NOMINAL POWER (W)	45	LOR (%)	100.0	S/MH (C90/270)	1.27
RATED VOLTAGE (V)	240	TOTAL FLUX (lm)	4896.5	<input type="checkbox"/> UP, DN (C0-180)	0.0, 49.4
NOMINAL FLUX (lm)	4896.5	CIE CLASS	DIRECT	<input type="checkbox"/> UP, DN (C180-360)	0.0, 50.6
LAMPS INSIDE	1	<input type="checkbox"/> up (%)	0.0	CIBSE SHR NOM	1.25
TEST VOLTAGE (V)	240	<input type="checkbox"/> down (%)	100.0	CIBSE SHR MAX	1.35



C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: DAMIN
 Test Date: 2020-08-25

Range: 0 - 90DEG
 Interval: 1.0DEG
 Test System: EVERFINE GO-2000H_V1 SYSTEM V2.0.404.7
 Humidity: 65.0%
 Test Distance: 9.880m [K=1.0000]
 Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

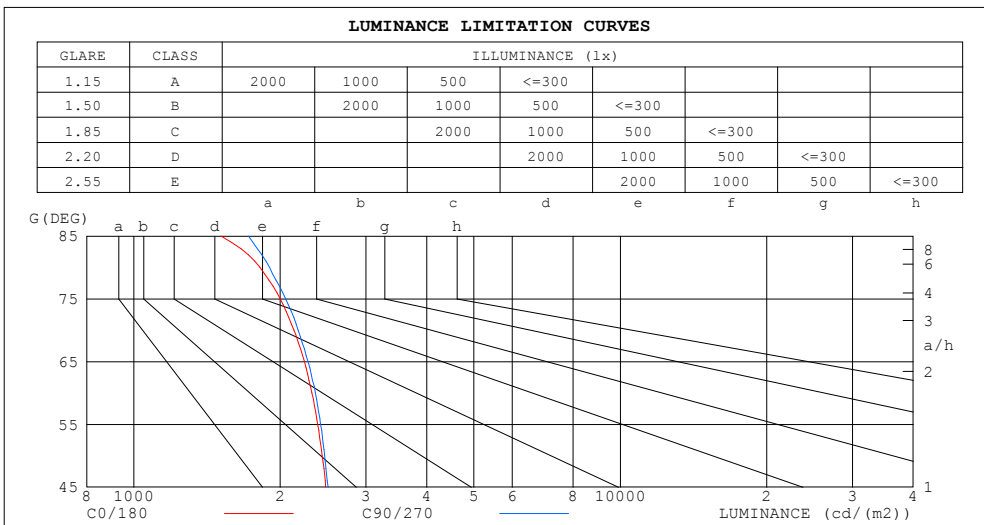
mm	C0	C45	C90	C135	C180	C225	C270	C315	mm	□ zone	□ total	%lum, lamp
10	1642	1638	1640	1641	1648	1650	1642	1640	0- 10	158.1	158.1	3.23,3.23
20	1553	1548	1558	1555	1567	1574	1562	1558	10- 20	453.8	612.0	12.5,12.5
30	1415	1408	1421	1420	1436	1442	1427	1422	20- 30	690.7	1303	26.6,26.6
40	1228	1221	1239	1238	1257	1263	1245	1240	30- 40	837.4	2140	43.7,43.7
50	1000	992.9	1012	1015	1035	1043	1019	1014	40- 50	874.6	3015	61.6,61.6
60	741.5	732.2	753.8	759.4	779.8	784.3	758.0	754.6	50- 60	795.5	3810	77.8,77.8
70	465.9	456.3	475.0	484.2	506.4	508.5	477.0	475.3	60- 70	613.5	4424	90.3,90.3
80	201.3	192.8	210.7	218.7	238.9	236.4	206.1	206.6	70- 80	364.1	4788	97.8,97.8
90	3.497	2.651	5.728	7.988	14.16	14.38	3.795	4.762	80- 90	108.7	4897	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		

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2020-08-25

□ Range: 0 - 90DEG
 □ Interval: 1.0DEG
 Test System:EVERFINE GO-2000H_V1 SYSTEM V2.0.404.7
 Humidity:65.0%
 Test Distance:9.880m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:240.42V I:0.1746A P:40.852W PF:0.9732 Freq:50.00Hz Lamp Flux:4896.5x1 lm		
NAME: BLP45W-120/60-CW	TYPE:45W	WEIGHT:
SPEC.:6000K	DIM.:	SERIAL No.:
MFR.:	SUR.:1.16*0.55	Shielding Angle:



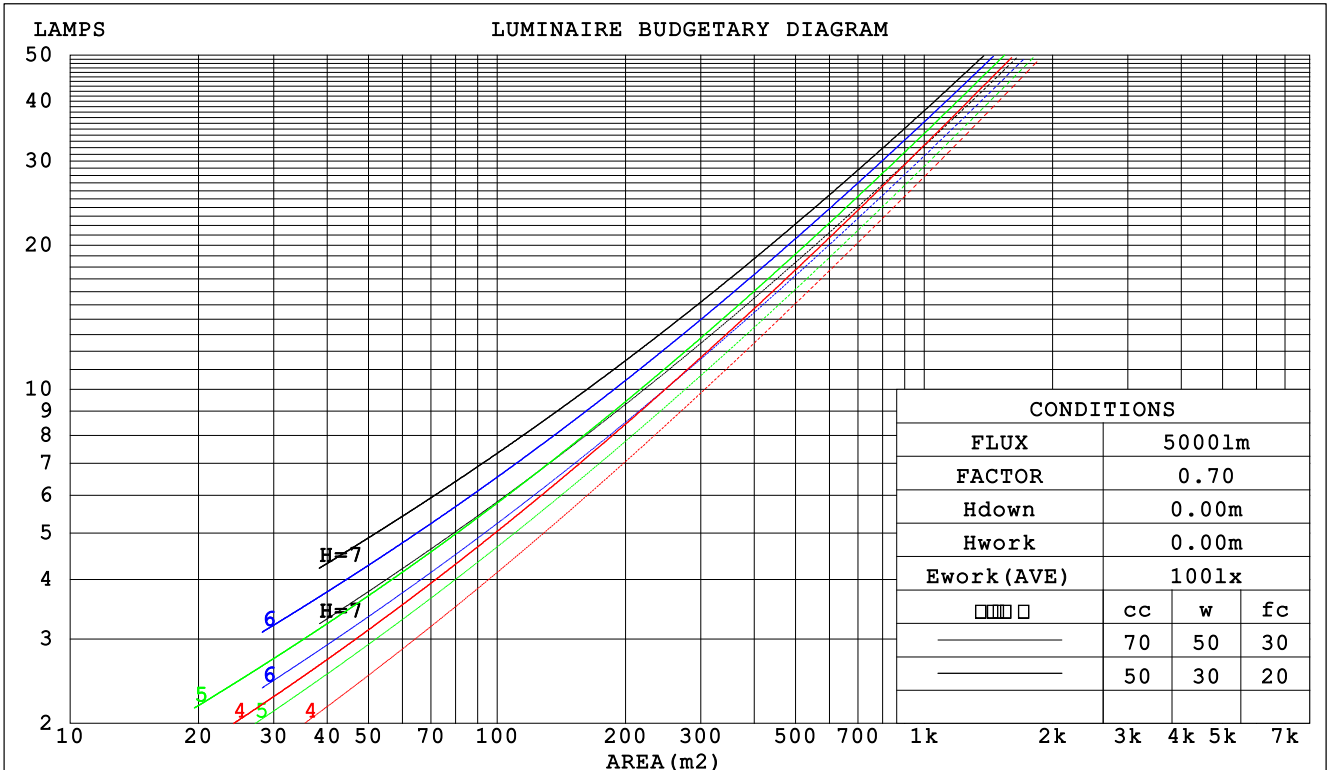
C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2020-08-25

Range: 0 - 90DEG
 Interval: 1.0DEG
 Test System:EVERFINE GO-2000H_V1 SYSTEM V2.0.404.7
 Humidity:65.0%
 Test Distance:9.880m [K=1.0000]
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:240.42V I:0.1746A P:40.852W PF:0.9732 Freq:50.00Hz Lamp Flux:4896.5x1 lm		
NAME: BLP45W-120/60-CW	TYPE:45W	WEIGHT:
SPEC.:6000K	DIM.:	SERIAL No.:
MFR.:	SUR.:1.16*0.55	Shielding Angle:

□cc	80%			70%			50%			30%			10%			0
□w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
□fc	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	1.04	.99	.95	1.01	.97	.94	.97	.94	.91	.93	.90	.88	.89	.87	.85	.83
2.0	.90	.83	.77	.88	.82	.76	.84	.79	.74	.81	.77	.73	.78	.74	.71	.69
3.0	.79	.71	.64	.77	.70	.63	.74	.68	.62	.71	.66	.61	.69	.64	.60	.58
4.0	.70	.61	.54	.68	.60	.54	.66	.59	.53	.63	.57	.52	.61	.56	.51	.49
5.0	.62	.53	.46	.61	.52	.46	.59	.51	.46	.57	.50	.45	.55	.49	.45	.42
6.0	.56	.47	.40	.55	.46	.40	.53	.46	.40	.51	.45	.39	.50	.44	.39	.37
7.0	.51	.42	.36	.50	.41	.35	.48	.41	.35	.47	.40	.35	.45	.39	.35	.33
8.0	.46	.38	.32	.46	.37	.32	.44	.37	.31	.43	.36	.31	.42	.36	.31	.29
9.0	.42	.34	.28	.42	.34	.28	.41	.33	.28	.40	.33	.28	.39	.32	.28	.26
10.0	.39	.31	.26	.39	.31	.26	.38	.30	.26	.37	.30	.25	.36	.30	.25	.24



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2020-08-25

□ Range: 0 - 90DEG
□ Interval: 1.0DEG
Test System:EVERFINE GO-2000H_V1 SYSTEM V2.0.404.7
Humidity:65.0%
Test Distance:9.880m [K=1.0000]
Remarks:

WEC AND CCEC

Test:U:240.42V I:0.1746A P:40.852W PF:0.9732 Freq:50.00Hz Lamp Flux:4896.5x1 lm		
NAME: BLP45W-120/60-CW	TYPE:45W	WEIGHT:
SPEC.:6000K	DIM.:	SERIAL No.:
MFR.:	SUR.:1.16*0.55	Shielding Angle:

<input type="checkbox"/> cc	80%			70%			50%			30%			10%			0
<input type="checkbox"/> w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
<input type="checkbox"/> fc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients (WEC)									
0.0																
1.0	.316	.180	.057	.309	.176	.056	.296	.170	.054	.284	.164	.053	.272	.158	.051	
2.0	.296	.162	.050	.290	.160	.049	.278	.155	.048	.267	.150	.047	.257	.146	.046	
3.0	.273	.145	.044	.268	.143	.043	.257	.140	.042	.248	.136	.042	.239	.132	.041	
4.0	.252	.131	.038	.247	.129	.038	.238	.126	.038	.229	.123	.037	.221	.120	.037	
5.0	.232	.118	.034	.228	.117	.034	.220	.114	.034	.212	.112	.033	.205	.110	.033	
6.0	.215	.108	.031	.211	.107	.031	.204	.105	.030	.197	.103	.030	.191	.101	.030	
7.0	.200	.099	.028	.197	.098	.028	.190	.096	.028	.184	.094	.027	.178	.093	.027	
8.0	.187	.091	.026	.184	.090	.026	.178	.089	.025	.172	.087	.025	.167	.086	.025	
9.0	.175	.085	.024	.172	.084	.024	.167	.083	.023	.162	.081	.023	.157	.080	.023	
10.0	.164	.079	.022	.162	.078	.022	.157	.077	.022	.153	.076	.022	.149	.075	.021	

<input type="checkbox"/> cc	80%			70%			50%			30%			10%			0
<input type="checkbox"/> w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
<input type="checkbox"/> 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	.181	.156	.134	.155	.134	.115	.106	.092	.080	.061	.053	.046	.020	.017	.015	
2.0	.173	.132	.097	.148	.114	.084	.101	.079	.059	.058	.046	.034	.019	.015	.011	
3.0	.165	.114	.074	.142	.099	.064	.097	.069	.045	.056	.040	.026	.018	.013	.009	
4.0	.157	.101	.058	.135	.087	.050	.093	.061	.035	.054	.036	.021	.017	.012	.007	
5.0	.150	.091	.047	.129	.078	.041	.089	.055	.029	.051	.032	.017	.017	.010	.006	
6.0	.143	.082	.039	.123	.071	.034	.085	.050	.024	.049	.029	.014	.016	.010	.005	
7.0	.136	.075	.033	.117	.065	.029	.081	.046	.020	.047	.027	.012	.015	.009	.004	
8.0	.129	.070	.029	.111	.060	.025	.077	.042	.018	.045	.025	.011	.015	.008	.003	
9.0	.123	.065	.025	.106	.056	.022	.074	.039	.016	.043	.023	.009	.014	.008	.003	
10.0	.118	.060	.022	.101	.052	.019	.070	.037	.014	.041	.022	.008	.013	.007	.003	

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2020-08-25

Range: 0 - 90DEG
 Interval: 1.0DEG
 Test System:EVERFINE GO-2000H_V1 SYSTEM V2.0.404.7
 Humidity:65.0%
 Test Distance:9.880m [K=1.0000]
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:240.42V I:0.1746A P:40.852W PF:0.9732 Freq:50.00Hz Lamp Flux:4896.5x1 lm										
NAME: BLP45W-120/60-CW					TYPE:45W			WEIGHT:		
SPEC.:6000K					DIM.:			SERIAL No.:		
MFR.:					SUR.:1.16*0.55			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	15.8	17.4	16.1	17.6	17.8	15.9	17.4	16.1	17.6	17.8
3H	17.4	18.8	17.7	19.0	19.2	17.4	18.8	17.7	19.1	19.3
4H	18.0	19.3	18.3	19.6	19.8	18.1	19.4	18.4	19.7	19.9
6H	18.4	19.7	18.8	20.0	20.3	18.5	19.8	18.9	20.1	20.4
8H	18.6	19.8	18.9	20.1	20.4	18.7	19.9	19.0	20.2	20.5
12H	18.7	19.8	19.0	20.1	20.4	18.8	20.0	19.2	20.3	20.6
4H 2H	16.4	17.8	16.7	18.0	18.3	16.5	17.8	16.8	18.1	18.3
3H	18.1	19.3	18.5	19.6	19.9	18.2	19.4	18.6	19.7	20.0
4H	18.9	20.0	19.3	20.3	20.6	19.0	20.0	19.3	20.4	20.7
6H	19.5	20.4	19.9	20.8	21.2	19.6	20.5	20.0	20.9	21.2
8H	19.7	20.6	20.1	20.9	21.3	19.8	20.7	20.2	21.0	21.4
12H	19.8	20.6	20.2	21.0	21.4	19.9	20.8	20.4	21.1	21.6
8H 4H	19.2	20.1	19.6	20.4	20.8	19.2	20.1	19.6	20.5	20.9
6H	19.9	20.6	20.3	21.0	21.5	20.0	20.7	20.4	21.1	21.5
8H	20.2	20.8	20.6	21.3	21.7	20.3	20.9	20.7	21.4	21.8
12H	20.4	20.9	20.8	21.4	21.9	20.5	21.1	21.0	21.5	22.0
12H 4H	19.2	20.0	19.6	20.4	20.8	19.2	20.1	19.7	20.4	20.8
6H	19.9	20.6	20.4	21.0	21.5	20.0	20.7	20.5	21.1	21.6
8H	20.3	20.8	20.7	21.3	21.8	20.4	20.9	20.8	21.4	21.9
Variations with the observer position at spacings:										
S = 1.0H	+ 0.1 / - 0.2					+ 0.1 / - 0.2				
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				
2.0H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				

CIE Pub.117, 4897 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 5.5)

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2020-08-25

Range: 0 - 90DEG
 Interval: 1.0DEG
 Test System:EVERFINE GO-2000H_V1 SYSTEM V2.0.404.7
 Humidity:65.0%
 Test Distance:9.880m [K=1.0000]
 Remarks:

UTILIZATION FACTORS TABLE

Test:U:240.42V I:0.1746A P:40.852W PF:0.9732 Freq:50.00Hz Lamp Flux:4896.5x1 lm		
NAME: BLP45W-120/60-CW	TYPE:45W	WEIGHT:
SPEC.:6000K	DIM.:	SERIAL No.:
MFR.:	SUR.:1.16*0.55	Shielding Angle:

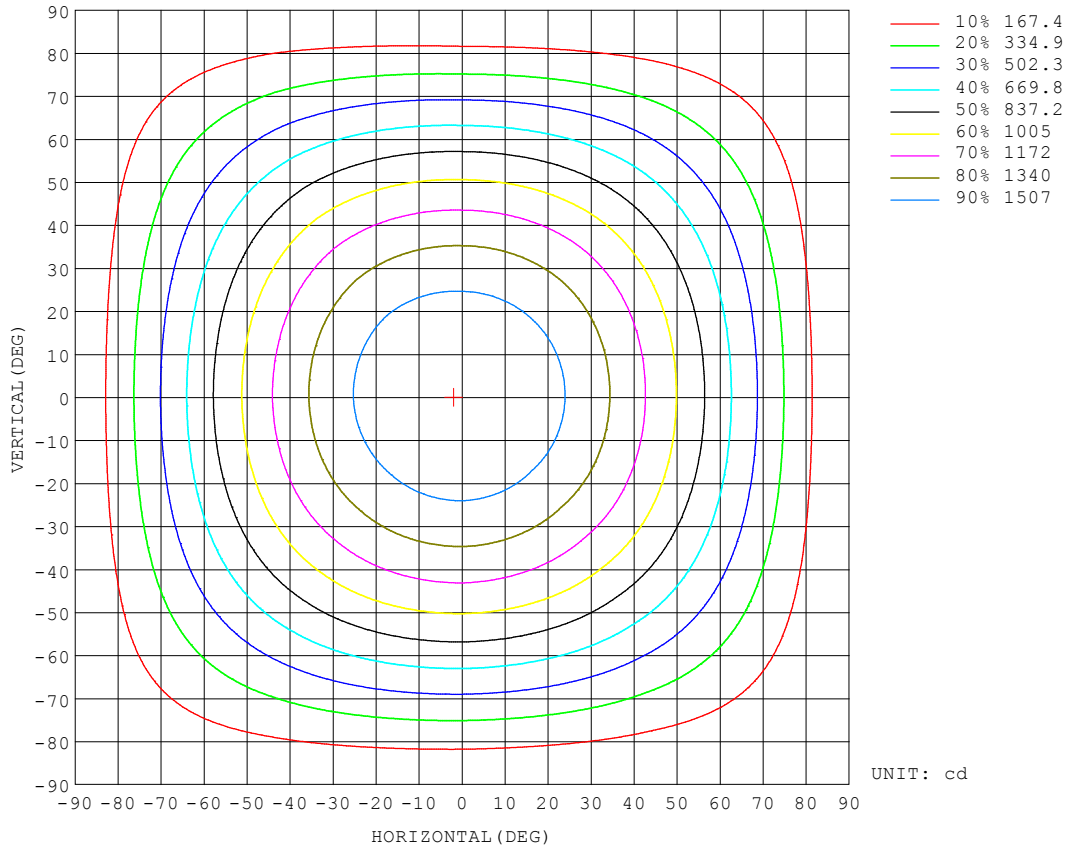
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	57	45	38	56	45	38	55	45	38	32
0.80	67	55	48	66	55	48	64	54	47	40
1.00	75	64	57	74	64	57	72	65	56	49
1.25	83	72	65	81	71	64	78	70	63	56
1.50	88	78	70	86	77	70	83	75	69	61
2.00	95	86	79	93	85	78	89	82	77	69
2.50	98	91	84	96	89	83	93	86	82	73
3.00	102	95	89	100	93	88	96	90	86	77
4.00	106	100	95	104	98	94	99	95	91	82
5.00	108	103	99	106	102	98	101	98	95	85
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNOM = 1.25			

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2020-08-25

Range: 0 - 90DEG
 Interval: 1.0DEG
 Test System:EVERFINE GO-2000H_V1 SYSTEM V2.0.404.7
 Humidity:65.0%
 Test Distance:9.880m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:240.42V I:0.1746A P:40.852W PF:0.9732 Freq:50.00Hz Lamp Flux:4896.5x1 lm		
NAME: BLP45W-120/60-CW	TYPE:45W	WEIGHT:
SPEC.:6000K	DIM.:	SERIAL No.:
MFR.:	SUR.:1.16*0.55	Shielding Angle:

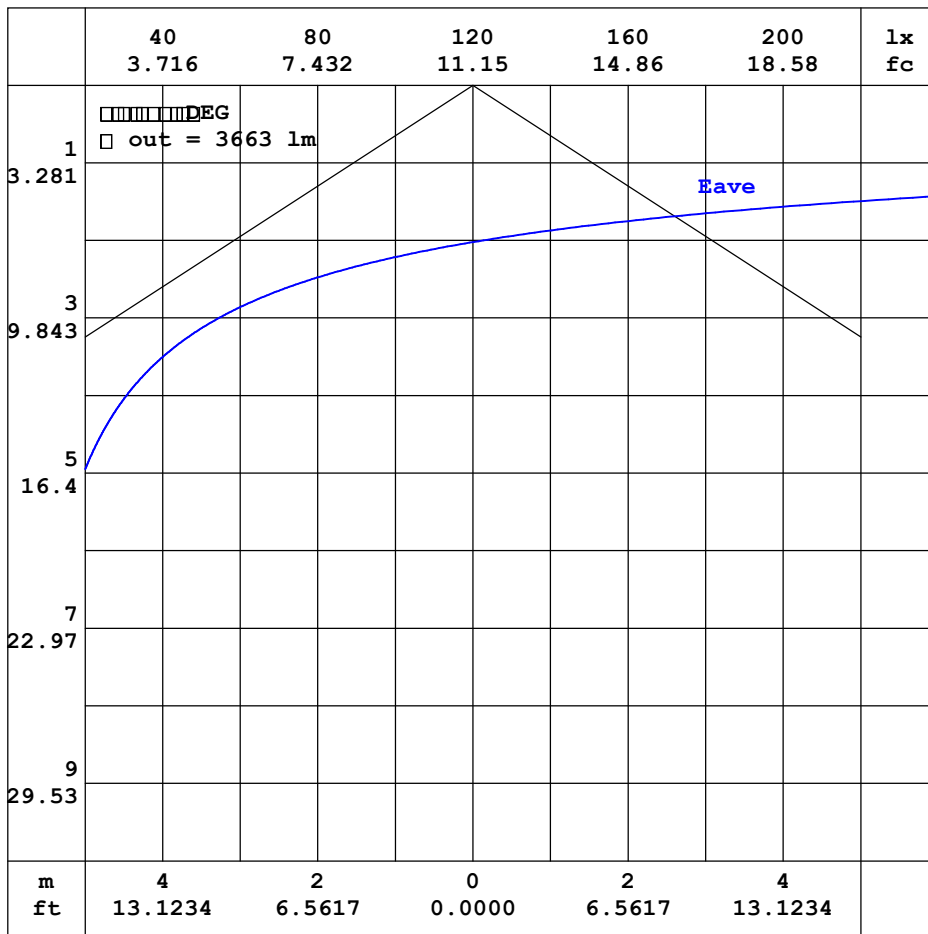


C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2020-08-25

Range: 0 - 90DEG
 Interval: 1.0DEG
 Test System:EVERFINE GO-2000H_V1 SYSTEM V2.0.404.7
 Humidity:65.0%
 Test Distance:9.880m [K=1.0000]
 Remarks:

AAI CURVES

Test:U:240.42V I:0.1746A P:40.852W PF:0.9732 Freq:50.00Hz Lamp Flux:4896.5x1 lm		
NAME: BLP45W-120/60-CW	TYPE:45W	WEIGHT:
SPEC.:6000K	DIM.:	SERIAL No.:
MFR.:	SUR.:1.16*0.55	Shielding Angle:



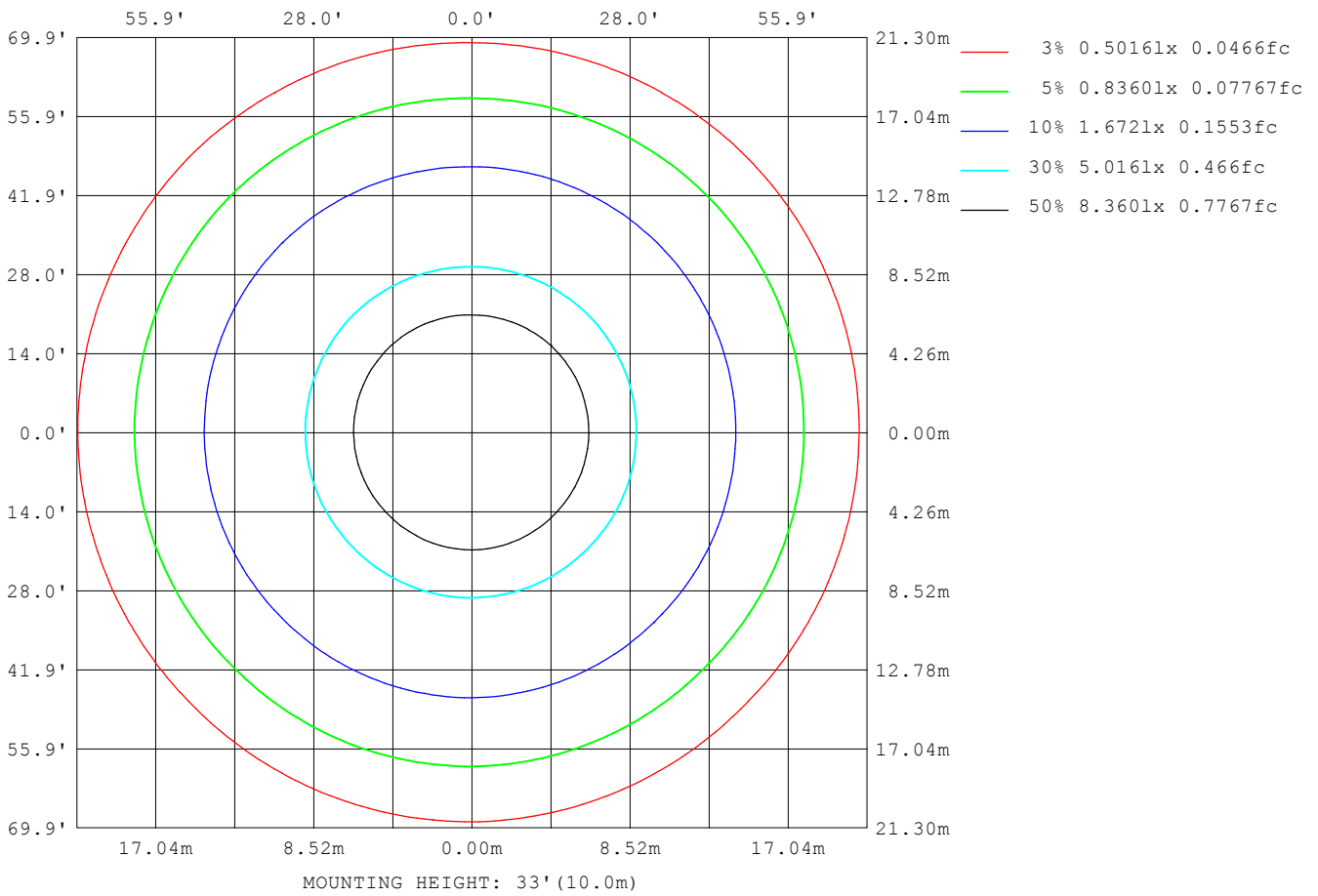
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2020-08-25

Range: 0 - 90DEG
 Interval: 1.0DEG
 Test System:EVERFINE GO-2000H_V1 SYSTEM V2.0.404.7
 Humidity:65.0%
 Test Distance:9.880m [K=1.0000]
 Remarks:

ISOLUX DIAGRAM

Test:U:240.42V I:0.1746A P:40.852W PF:0.9732 Freq:50.00Hz Lamp Flux:4896.5x1 lm		
NAME: BLP45W-120/60-CW	TYPE:45W	WEIGHT:
SPEC.:6000K	DIM.:	SERIAL No.:
MFR.:	SUR.:1.16*0.55	Shielding Angle:



C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2020-08-25

Range: 0 - 90DEG
 Interval: 1.0DEG
 Test System:EVERFINE GO-2000H_V1 SYSTEM V2.0.404.7
 Humidity:65.0%
 Test Distance:9.880m [K=1.0000]
 Remarks:

LED Avg.L Report

Test:U:240.42V I:0.1746A P:40.852W PF:0.9732 Freq:50.00Hz Lamp Flux:4896.5x1 lm		
NAME: BLP45W-120/60-CW	TYPE:45W	WEIGHT:
SPEC.:6000K	DIM.:	SERIAL No.:
MFR.:	SUR.:1.16*0.55	Shielding Angle:

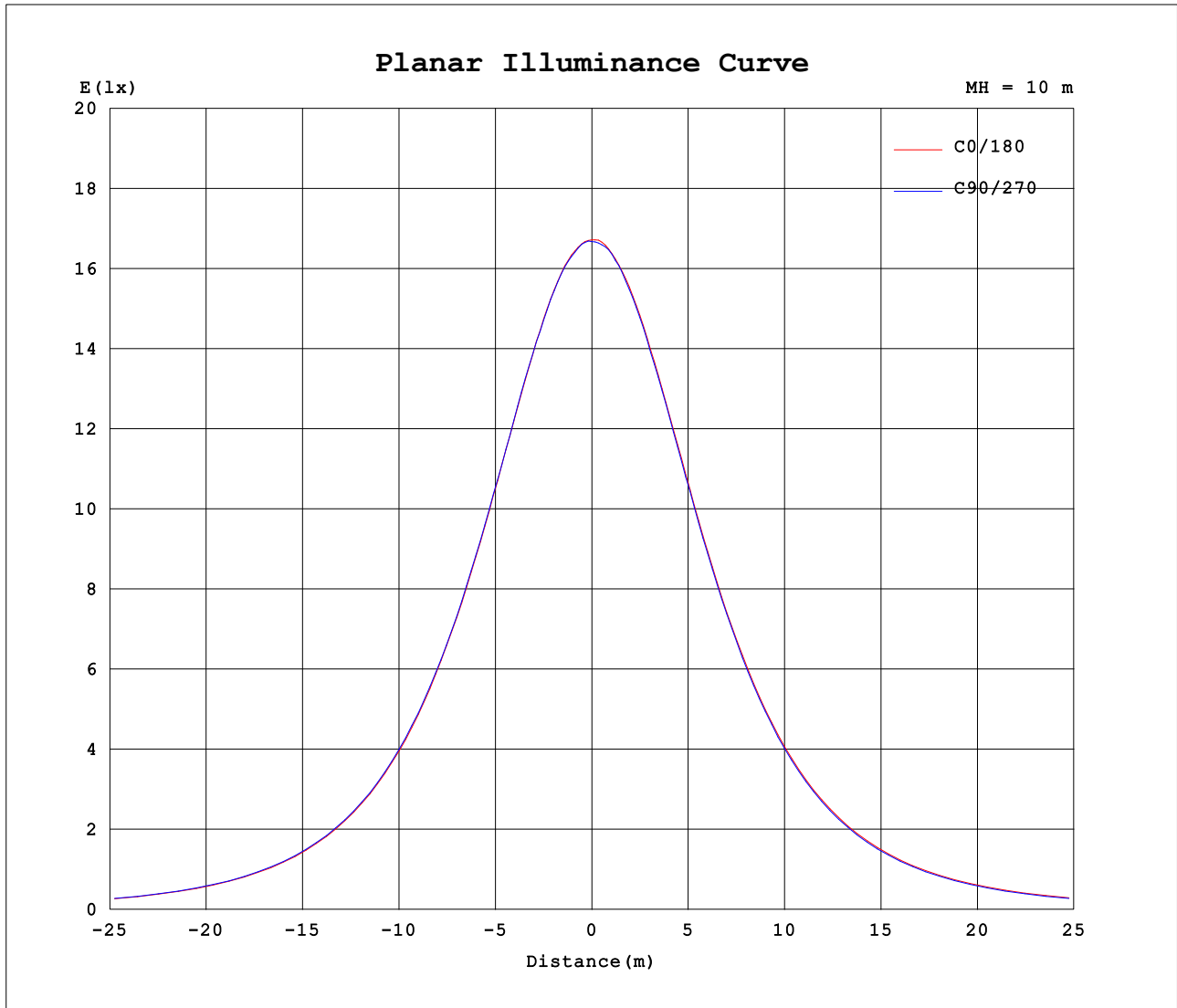
AvgL	cd/m2
L_0~180 (65) av	2315
L_0~180 (75) av	2122
L_0~180 (85) av	1804
L_90~270 (65) av	2287
L_90~270 (75) av	2050
L_90~270 (85) av	1658
L_45 (65) av	2298
L_45 (75) av	2082
L_45 (85) av	1711

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2020-08-25

Range: 0 - 90DEG
 Interval: 1.0DEG
 Test System:EVERFINE GO-2000H_V1 SYSTEM V2.0.404.7
 Humidity:65.0%
 Test Distance:9.880m [K=1.0000]
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: DAMIN
 Test Date: 2020-08-25

Range: 0 - 90DEG
 Interval: 1.0DEG
 Test System: EVERFINE GO-2000H_V1 SYSTEM V2.0.404.7
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 Test Distance: 9.880m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:240.42V I:0.1746A P:40.852W PF:0.9732 Freq:50.00Hz Lamp Flux:4896.5x1 lm		
NAME: BLP45W-120/60-CW	TYPE:45W	WEIGHT:
SPEC.:6000K	DIM.:	SERIAL No.:
MFR.:	SUR.:1.16*0.55	Shielding Angle:

Table--1

UNIT: cd

C (DEG)\ φ (DEG)	0	45	90	135	180	225	270	315										
0	1672	1669	1668	1668	1672	1669	1668	1668										
5	1663	1663	1660	1660	1669	1666	1666	1664										
10	1642	1638	1640	1641	1648	1650	1642	1640										
15	1605	1600	1603	1604	1617	1616	1611	1608										
20	1553	1548	1558	1555	1567	1574	1562	1558										
25	1493	1486	1493	1496	1511	1516	1502	1497										
30	1415	1408	1421	1420	1436	1442	1427	1422										
35	1328	1319	1333	1337	1351	1359	1344	1339										
40	1228	1221	1239	1238	1257	1263	1245	1240										
45	1119	1111	1131	1133	1151	1159	1137	1135										
50	1000	993	1012	1015	1035	1043	1019	1014										
55	874	865	886	890	911	917	893	887										
60	742	732	754	759	780	784	758	755										
65	605	594	615	622	644	647	619	615										
70	466	456	475	484	506	509	477	475										
75	330	321	339	348	370	369	338	337										
80	201	193	211	219	239	236	206	207										
85	83.9	76.9	95.6	100	117	115	88.8	88.3										
90	3.50	2.65	5.73	7.99	14.2	14.4	3.80	4.76										

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2020-08-25

Range: 0 - 90DEG
 Interval: 1.0DEG
 Test System:EVERFINE GO-2000H_V1 SYSTEM V2.0.404.7
 Humidity:65.0%
 Test Distance:9.880m [K=1.0000]
 Remarks: