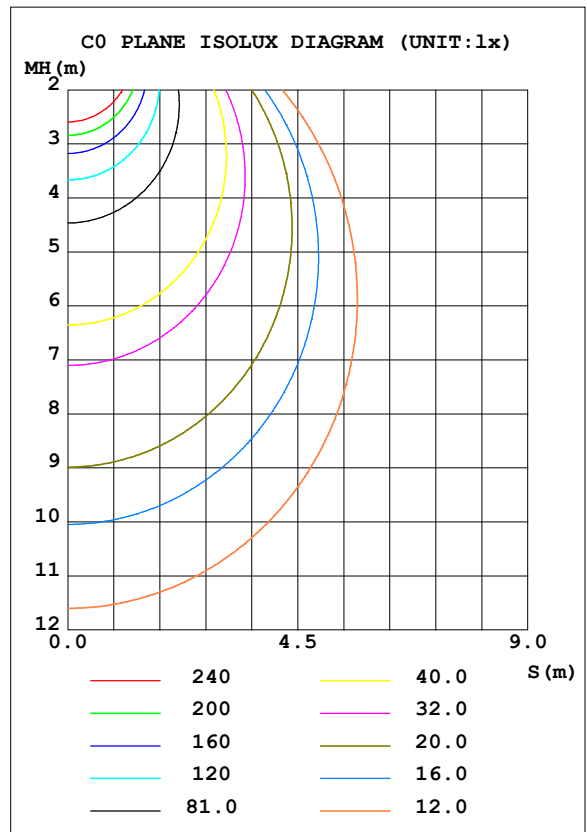
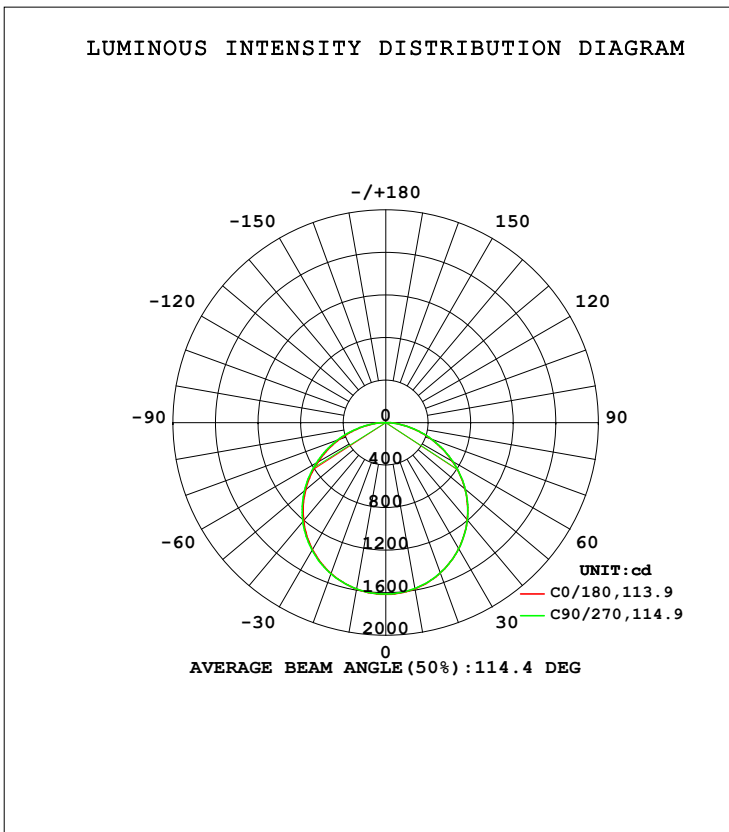


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:240.16V I:0.1808A P:42.269W PF:0.9735 Freq:50.00Hz Lamp Flux:4733.21x1 lm		
NAME: BLP45W-120/60-CC	TYPE:45W	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:1
MFR.:	SUR.:1.142*0.546	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 111.98 lm/W			
MODEL	BLP45W-120/60-CC	Imax (cd)	1615	S/MH (C0/180)	1.26
NOMINAL POWER (W)	45	LOR (%)	100.0	S/MH (C90/270)	1.28
RATED VOLTAGE (V)	240	TOTAL FLUX (lm)	4733.2	<input type="checkbox"/> UP, DN (C0-180)	0.0, 49.5
NOMINAL FLUX (lm)	4733.21	CIE CLASS	DIRECT	<input type="checkbox"/> UP, DN (C180-360)	0.0, 50.5
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: 22.5DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: DAMIN
 Test Date: 2022-07-15

Range: 0 - 90DEG
 Interval: 1.0DEG
 Test System: EVERFINE GO-2000H_V1 SYSTEM V2.0.404.7
 Humidity: 65.0%
 Test Distance: 8.570m [K=1.0000]
 Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

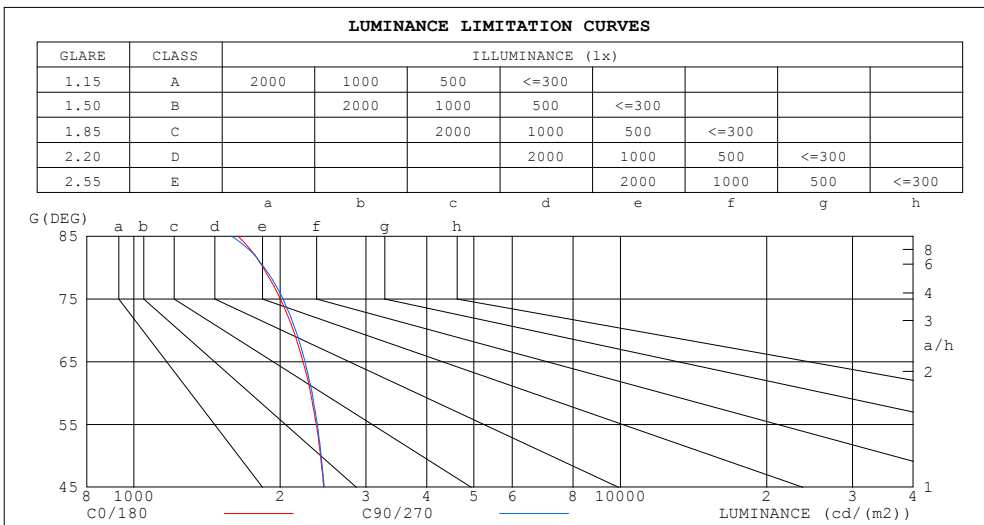
mm	C0	C45	C90	C135	C180	C225	C270	C315	mm	□ zone	□ total	%lum, lamp
10	1586	1585	1582	1578	1588	1589	1587	1583	0- 10	152.5	152.5	3.22,3.22
20	1503	1504	1502	1497	1509	1511	1511	1506	10- 20	437.9	590.4	12.5,12.5
30	1371	1373	1371	1365	1379	1382	1386	1379	20- 30	666.6	1257	26.6,26.6
40	1193	1196	1194	1188	1202	1208	1214	1206	30- 40	808.8	2066	43.6,43.6
50	973.5	977.4	976.6	969.4	984.6	992.7	1000	991.9	40- 50	845.1	2911	61.5,61.5
60	722.2	726.8	727.3	718.9	734.2	743.4	753.5	743.7	50- 60	769.7	3681	77.8,77.8
70	455.3	460.2	460.4	451.6	466.0	475.5	487.3	477.6	60- 70	594.4	4275	90.3,90.3
80	200.3	201.8	201.5	193.3	206.1	214.5	225.9	219.0	70- 80	353.4	4628	97.8,97.8
90	3.214	3.604	2.043	1.978	3.909	5.256	6.556	6.796	80- 90	104.8	4733	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: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2022-07-15

□ Range: 0 - 90DEG
 □ Interval: 1.0DEG
 Test System:EVERFINE GO-2000H_V1 SYSTEM V2.0.404.7
 Humidity:65.0%
 Test Distance:8.570m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:240.16V I:0.1808A P:42.269W PF:0.9735 Freq:50.00Hz Lamp Flux:4733.21x1 lm		
NAME: BLP45W-120/60-CC	TYPE:45W	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:1
MFR.:	SUR.:1.142*0.546	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	1636	1588
80	1844	1855
75	2001	2025
70	2128	2151
65	2228	2249
60	2309	2325
55	2371	2383
50	2420	2428
45	2458	2464

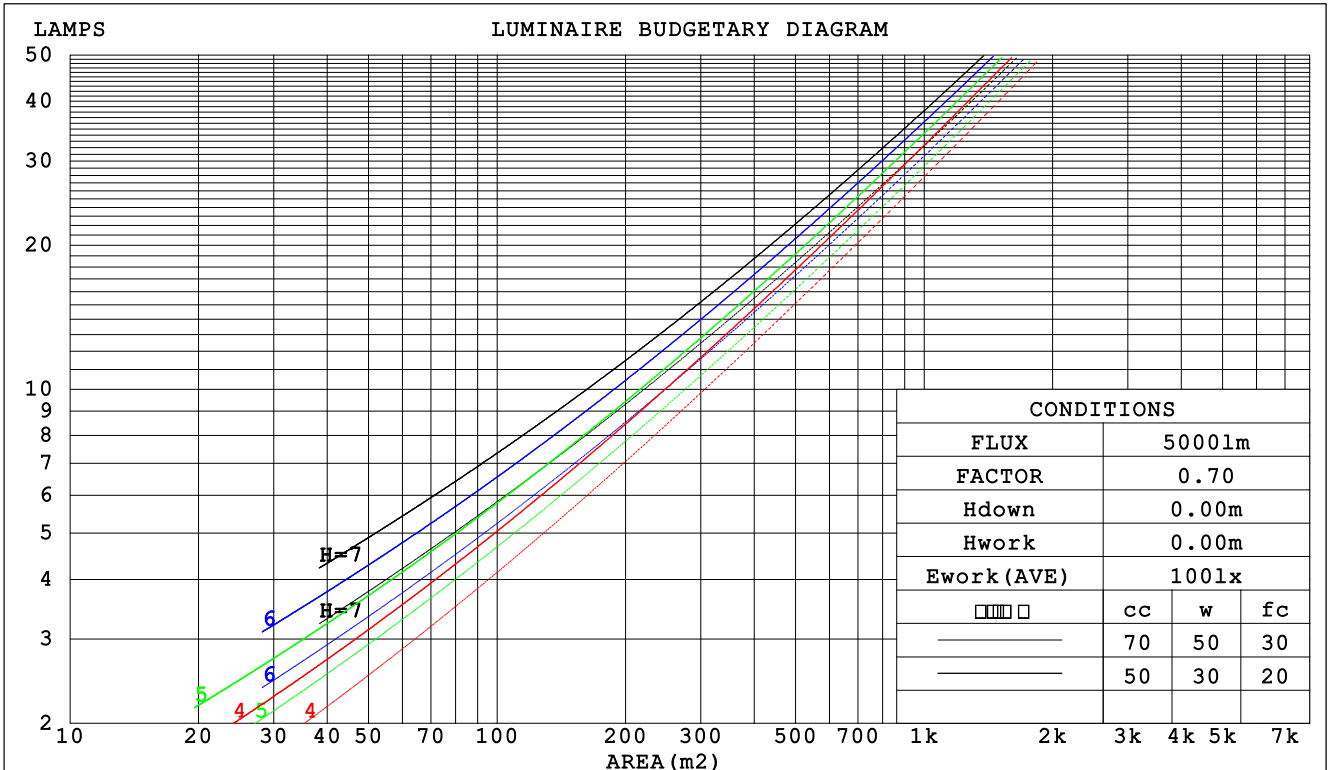
C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2022-07-15

Range: 0 - 90DEG
 Interval: 1.0DEG
 Test System:EVERFINE GO-2000H_V1 SYSTEM V2.0.404.7
 Humidity:65.0%
 Test Distance:8.570m [K=1.0000]
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:240.16V I:0.1808A P:42.269W PF:0.9735 Freq:50.00Hz Lamp Flux:4733.21x1 lm		
NAME: BLP45W-120/60-CC	TYPE:45W	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:1
MFR.:	SUR.:1.142*0.546	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	.70	.64	.77	.69	.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	.45	.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	.45	.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	.38	.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: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2022-07-15

□ Range: 0 - 90DEG
□ Interval: 1.0DEG
Test System:EVERFINE GO-2000H_V1 SYSTEM V2.0.404.7
Humidity:65.0%
Test Distance:8.570m [K=1.0000]
Remarks:

WEC AND CCEC

Test:U:240.16V I:0.1808A P:42.269W PF:0.9735 Freq:50.00Hz Lamp Flux:4733.21x1 lm		
NAME: BLP45W-120/60-CC	TYPE:45W	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:1
MFR.:	SUR.:1.142*0.546	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	.317	.180	.057	.309	.177	.056	.296	.170	.054	.284	.164	.053	.273	.158	.051	
2.0	.296	.162	.050	.290	.160	.049	.278	.155	.048	.268	.150	.047	.258	.146	.046	
3.0	.274	.146	.044	.268	.144	.043	.258	.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	.233	.118	.034	.228	.117	.034	.220	.115	.034	.212	.112	.033	.205	.110	.033	
6.0	.215	.108	.031	.212	.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	.179	.093	.027	
8.0	.187	.091	.026	.184	.091	.026	.178	.089	.025	.173	.087	.025	.167	.086	.025	
9.0	.175	.085	.024	.172	.084	.024	.167	.083	.023	.162	.081	.023	.158	.080	.023	
10.0	.165	.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	.059	.046	.034	.019	.015	.011	
3.0	.165	.114	.074	.142	.099	.064	.097	.069	.045	.056	.040	.026	.018	.013	.009	
4.0	.158	.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: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2022-07-15

Range: 0 - 90DEG
 Interval: 1.0DEG
 Test System:EVERFINE GO-2000H_V1 SYSTEM V2.0.404.7
 Humidity:65.0%
 Test Distance:8.570m [K=1.0000]
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:240.16V I:0.1808A P:42.269W PF:0.9735 Freq:50.00Hz Lamp Flux:4733.21x1 lm										
NAME: BLP45W-120/60-CC					TYPE:45W			WEIGHT:		
SPEC.:3000K					DIM.:			SERIAL No.:1		
MFR.:					SUR.:1.142*0.546			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	15.9	17.4	16.1	17.6	17.8	15.9	17.4	16.2	17.6	17.8
3H	17.4	18.8	17.7	19.1	19.3	17.5	18.9	17.8	19.1	19.4
4H	18.0	19.4	18.4	19.7	19.9	18.1	19.5	18.4	19.7	20.0
6H	18.5	19.8	18.8	20.1	20.3	18.6	19.8	18.9	20.1	20.4
8H	18.7	19.9	19.0	20.2	20.5	18.7	20.0	19.1	20.2	20.5
12H	18.8	20.0	19.1	20.2	20.6	18.8	20.0	19.2	20.3	20.6
4H 2H	16.5	17.9	16.8	18.1	18.4	16.5	17.9	16.8	18.1	18.4
3H	18.2	19.4	18.6	19.7	20.0	18.3	19.5	18.6	19.8	20.1
4H	19.0	20.1	19.4	20.4	20.7	19.0	20.1	19.4	20.4	20.8
6H	19.6	20.6	20.0	20.9	21.3	19.6	20.6	20.0	21.0	21.3
8H	19.8	20.7	20.2	21.1	21.5	19.9	20.8	20.3	21.1	21.5
12H	20.0	20.8	20.4	21.2	21.6	20.0	20.8	20.4	21.2	21.6
8H 4H	19.3	20.2	19.7	20.5	20.9	19.3	20.2	19.7	20.6	21.0
6H	20.0	20.8	20.5	21.2	21.6	20.1	20.8	20.5	21.2	21.7
8H	20.3	21.0	20.8	21.4	21.9	20.4	21.1	20.8	21.5	21.9
12H	20.6	21.1	21.0	21.6	22.1	20.6	21.2	21.1	21.6	22.1
12H 4H	19.3	20.1	19.7	20.5	20.9	19.3	20.2	19.8	20.6	21.0
6H	20.1	20.8	20.6	21.2	21.6	20.2	20.8	20.6	21.2	21.7
8H	20.5	21.0	20.9	21.5	22.0	20.5	21.1	21.0	21.5	22.0
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	+ 0.1 / - 0.3					+ 0.1 / - 0.3				

CIE Pub.117, 4733 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 5.4)

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2022-07-15

Range: 0 - 90DEG
 Interval: 1.0DEG
 Test System:EVERFINE GO-2000H_V1 SYSTEM V2.0.404.7
 Humidity:65.0%
 Test Distance:8.570m [K=1.0000]
 Remarks:

UTILIZATION FACTORS TABLE

Test:U:240.16V I:0.1808A P:42.269W PF:0.9735 Freq:50.00Hz Lamp Flux:4733.21x1 lm		
NAME: BLP45W-120/60-CC	TYPE:45W	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:1
MFR.:	SUR.:1.142*0.546	Shielding Angle:

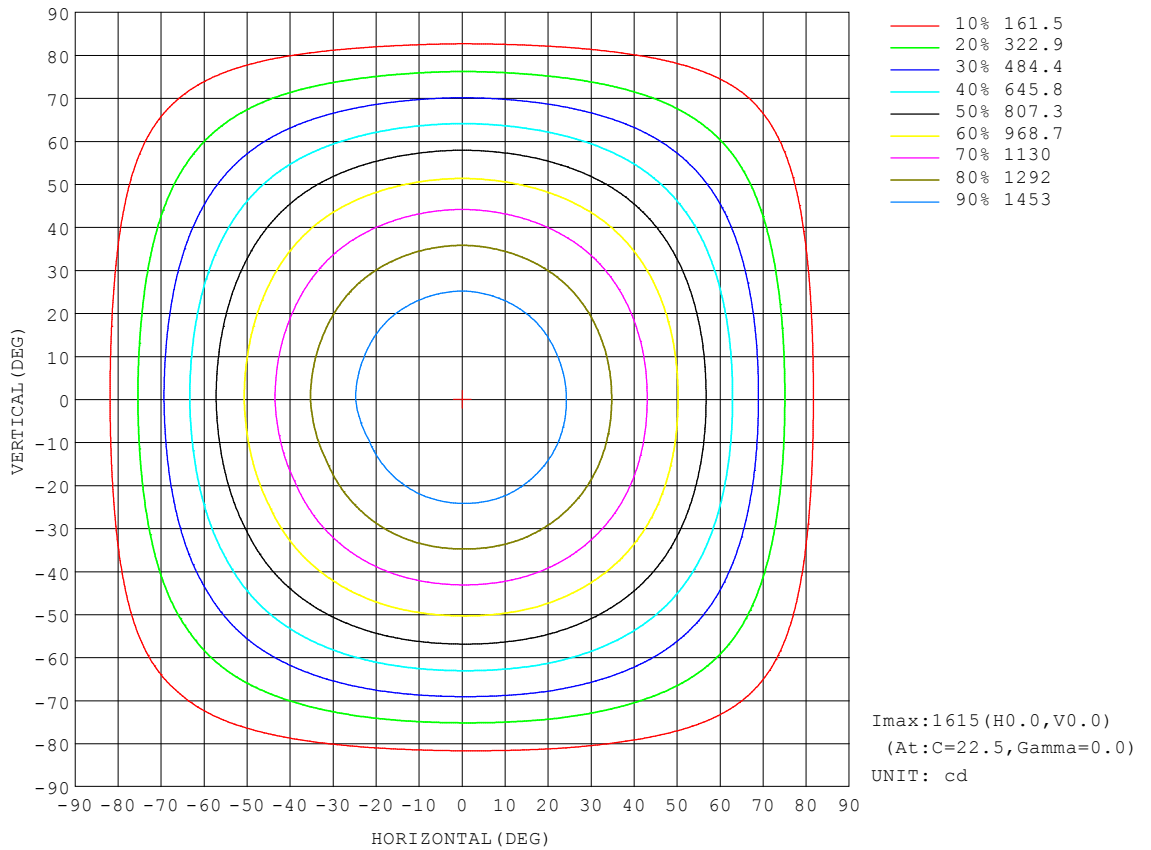
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	57	45	38	56	45	38	55	45	38	31
0.80	67	55	48	66	55	48	64	54	47	40
1.00	75	64	57	74	64	56	72	65	56	49
1.25	83	72	65	81	71	64	78	70	63	56
1.50	88	77	70	86	77	70	83	75	69	61
2.00	94	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: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2022-07-15

Range: 0 - 90DEG
 Interval: 1.0DEG
 Test System:EVERFINE GO-2000H_V1 SYSTEM V2.0.404.7
 Humidity:65.0%
 Test Distance:8.570m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:240.16V I:0.1808A P:42.269W PF:0.9735 Freq:50.00Hz Lamp Flux:4733.21x1 lm		
NAME: BLP45W-120/60-CC	TYPE:45W	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:1
MFR.:	SUR.:1.142*0.546	Shielding Angle:

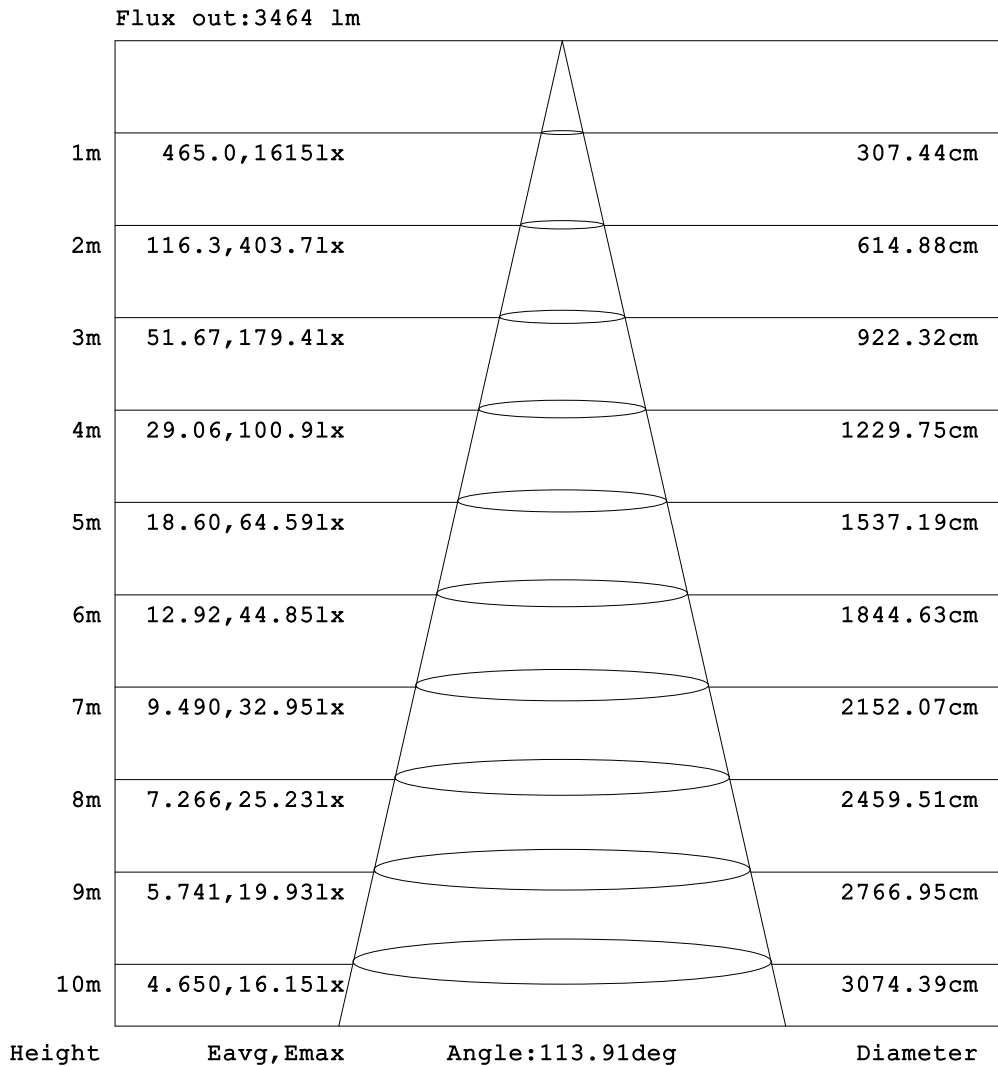


C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2022-07-15

Range: 0 - 90DEG
 Interval: 1.0DEG
 Test System:EVERFINE GO-2000H_V1 SYSTEM V2.0.404.7
 Humidity:65.0%
 Test Distance:8.570m [K=1.0000]
 Remarks:

AAI Figure

Test:U:240.16V I:0.1808A P:42.269W PF:0.9735 Freq:50.00Hz Lamp Flux:4733.21x1 lm		
NAME: BLP45W-120/60-CC	TYPE:45W	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:1
MFR.:	SUR.:1.142*0.546	Shielding Angle:



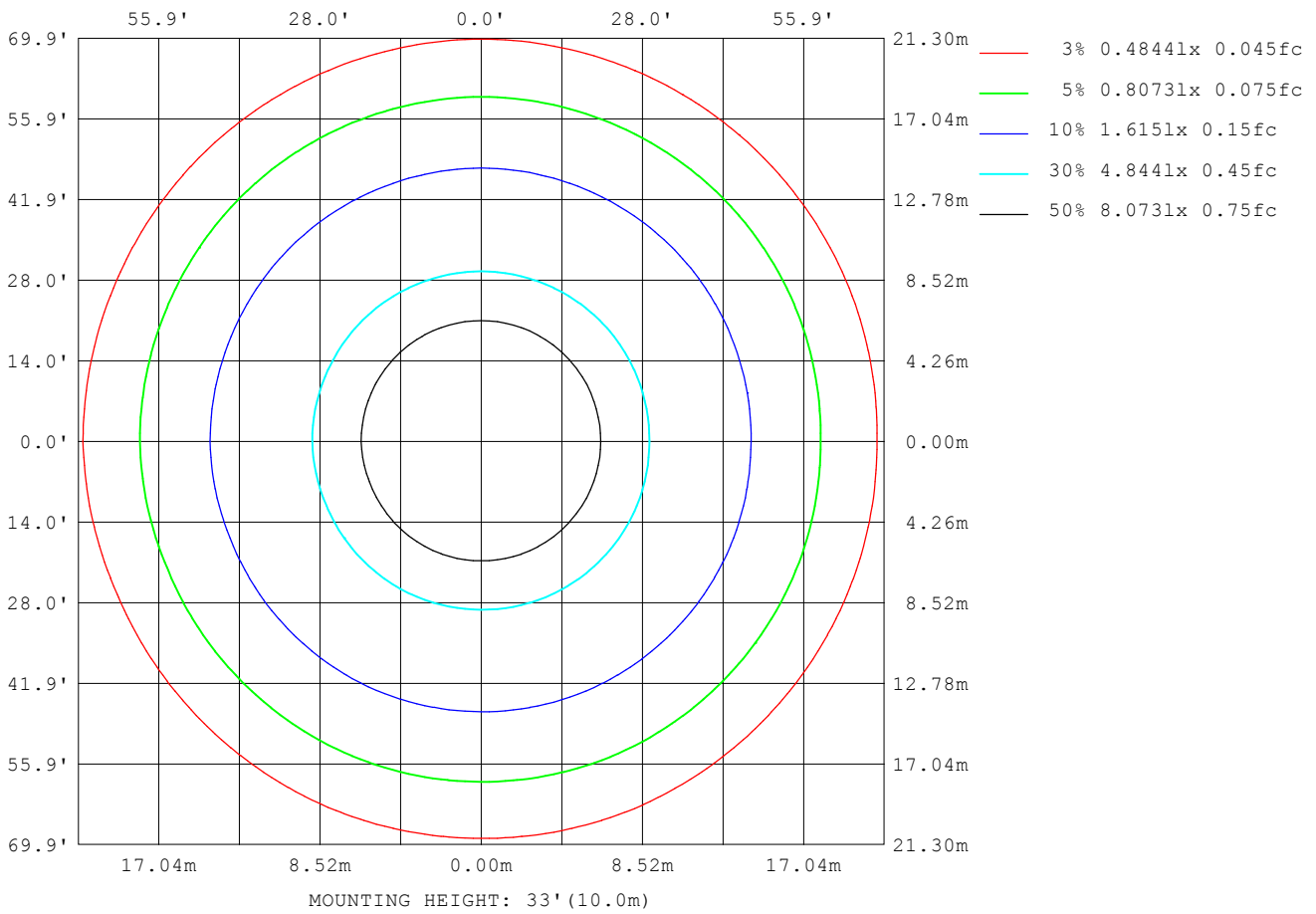
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2022-07-15

Range: 0 - 90DEG
 Interval: 1.0DEG
 Test System:EVERFINE GO-2000H_V1 SYSTEM V2.0.404.7
 Humidity:65.0%
 Test Distance:8.570m [K=1.0000]
 Remarks:

ISOLUX DIAGRAM

Test:U:240.16V I:0.1808A P:42.269W PF:0.9735 Freq:50.00Hz Lamp Flux:4733.21x1 lm		
NAME: BLP45W-120/60-CC	TYPE:45W	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:1
MFR.:	SUR.:1.142*0.546	Shielding Angle:



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2022-07-15

Range: 0 - 90DEG
 Interval: 1.0DEG
 Test System:EVERFINE GO-2000H_V1 SYSTEM V2.0.404.7
 Humidity:65.0%
 Test Distance:8.570m [K=1.0000]
 Remarks:

LED Avg.L Report

Test:U:240.16V I:0.1808A P:42.269W PF:0.9735 Freq:50.00Hz Lamp Flux:4733.21x1 lm		
NAME: BLP45W-120/60-CC	TYPE:45W	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:1
MFR.:	SUR.:1.142*0.546	Shielding Angle:

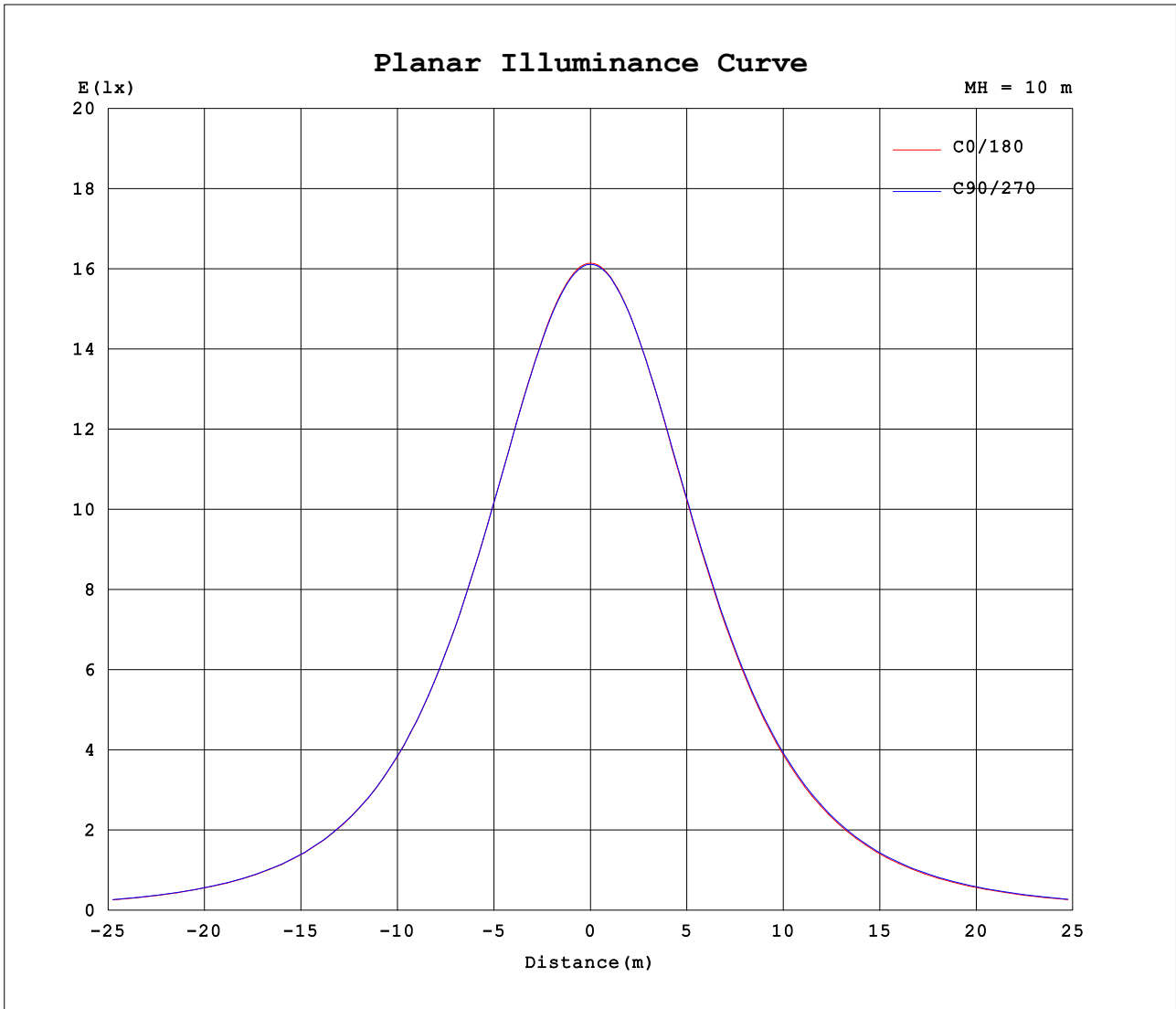
AvgL	cd/m2
L_0~180 (65) av	2251
L_0~180 (75) av	2029
L_0~180 (85) av	1658
L_90~270 (65) av	2299
L_90~270 (75) av	2106
L_90~270 (85) av	1775
L_45 (65) av	2272
L_45 (75) av	2061
L_45 (85) av	1687

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2022-07-15

Range: 0 - 90DEG
 Interval: 1.0DEG
 Test System:EVERFINE GO-2000H_V1 SYSTEM V2.0.404.7
 Humidity:65.0%
 Test Distance:8.570m [K=1.0000]
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: DAMIN
 Test Date: 2022-07-15

Range: 0 - 90DEG
 Interval: 1.0DEG
 Test System: EVERFINE GO-2000H_V1 SYSTEM V2.0.404.7
 Humidity: 65.0%
 Test Distance: 8.570m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:240.16V I:0.1808A P:42.269W PF:0.9735 Freq:50.00Hz Lamp Flux:4733.21x1 lm		
NAME: BLP45W-120/60-CC	TYPE:45W	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:1
MFR.:	SUR.:1.142*0.546	Shielding Angle:

Table--1

UNIT: cd

C (DEG) □ (DEG)	0	22.5	45	67.5	90	112.5	135	157.5	180	202.5	225	247.5	270	292.5	315	337.5			
0	1615	1615	1614	1613	1611	1610	1608	1605	1615	1615	1614	1613	1611	1610	1608	1605			
5	1607	1607	1606	1605	1604	1603	1600	1598	1609	1608	1608	1607	1606	1604	1603	1599			
10	1586	1586	1585	1585	1582	1581	1578	1577	1588	1588	1589	1588	1587	1586	1583	1580			
15	1551	1552	1551	1551	1549	1547	1544	1542	1555	1555	1556	1556	1557	1554	1551	1547			
20	1503	1505	1504	1504	1502	1500	1497	1494	1509	1508	1511	1511	1511	1509	1506	1502			
25	1443	1445	1444	1446	1443	1441	1437	1435	1450	1449	1453	1453	1455	1452	1449	1443			
30	1371	1374	1373	1375	1371	1370	1365	1363	1379	1379	1382	1384	1386	1383	1379	1373			
35	1288	1289	1290	1292	1288	1287	1282	1279	1296	1296	1301	1303	1306	1302	1298	1291			
40	1193	1196	1196	1198	1194	1193	1188	1185	1202	1202	1208	1211	1214	1210	1206	1198			
45	1087	1092	1091	1094	1090	1089	1084	1080	1098	1098	1106	1108	1112	1108	1104	1095			
50	973	978	977	981	977	975	969	967	985	985	993	996	1000	996	992	983			
55	851	855	856	860	855	854	847	845	863	864	872	875	881	876	871	863			
60	722	727	727	731	727	725	719	717	734	735	743	748	754	749	744	735			
65	589	594	594	599	595	593	586	583	601	602	611	616	621	617	612	604			
70	455	459	460	464	460	458	452	449	466	467	476	481	487	483	478	470			
75	324	328	328	332	328	326	319	317	333	334	343	347	354	350	346	339			
80	200	203	202	205	202	199	193	191	206	207	215	219	226	222	219	213			
85	89.2	89.0	88.0	88.5	86.6	83.1	80.5	78.8	91.6	92.4	97.2	102	107	105	102	100			
90	3.21	3.87	3.60	2.53	2.04	1.74	1.98	2.13	3.91	4.72	5.26	5.94	6.56	7.21	6.80	7.52			

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2022-07-15

□ Range: 0 - 90DEG
 □ Interval: 1.0DEG
 Test System:EVERFINE GO-2000H_V1 SYSTEM V2.0.404.7
 Humidity:65.0%
 Test Distance:8.570m [K=1.0000]
 Remarks: