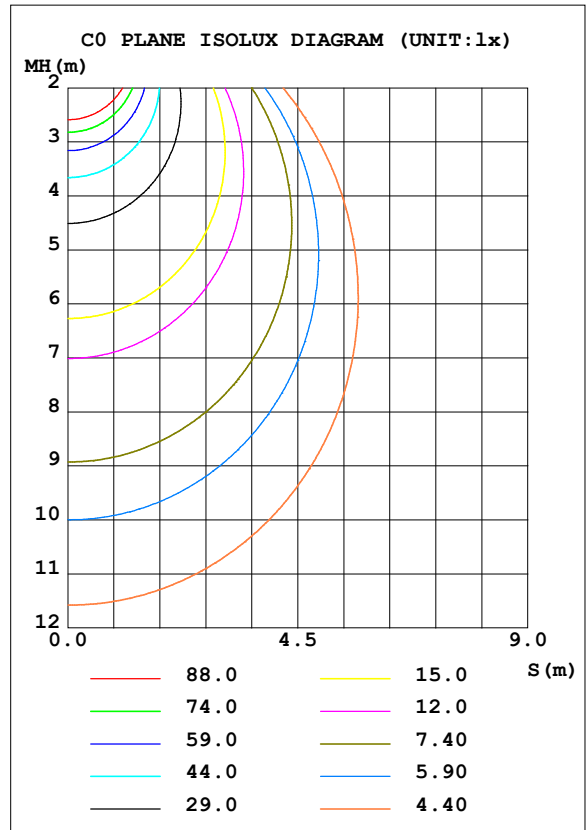
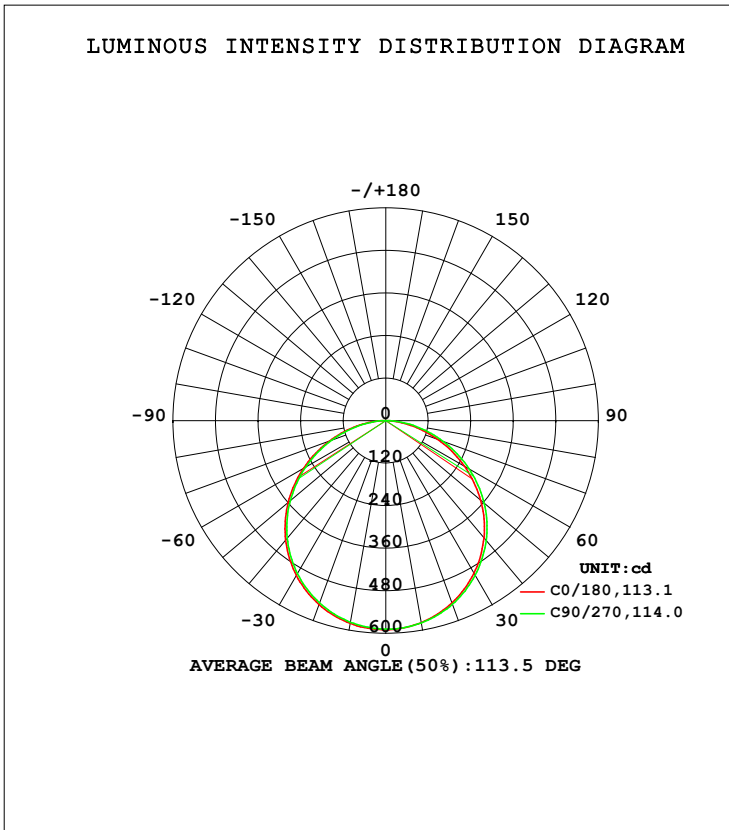


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:240.45V I:0.0722A P:16.392W PF:0.9441 Freq:50.00Hz Lamp Flux:1707.41x1 lm		
NAME: BLP16W-30/60	TYPE:16W	WEIGHT:
SPEC.:4000K	DIM.:	SERIAL No.:
MFR.:	SUR.:0.552*0.252	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 104.16 lm/W			
MODEL	BLP16W-30/60	Imax (cd)	589.6	S/MH (C0/180)	1.25
NOMINAL POWER (W)	16	LOR (%)	100.0	S/MH (C90/270)	1.27
RATED VOLTAGE (V)	240	TOTAL FLUX (lm)	1707.4	<input type="checkbox"/> UP, DN (C0-180)	0.0,49.9
NOMINAL FLUX (lm)	1707.41	CIE CLASS	DIRECT	<input type="checkbox"/> UP, DN (C180-360)	0.0,50.1
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: 2020-08-31

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:

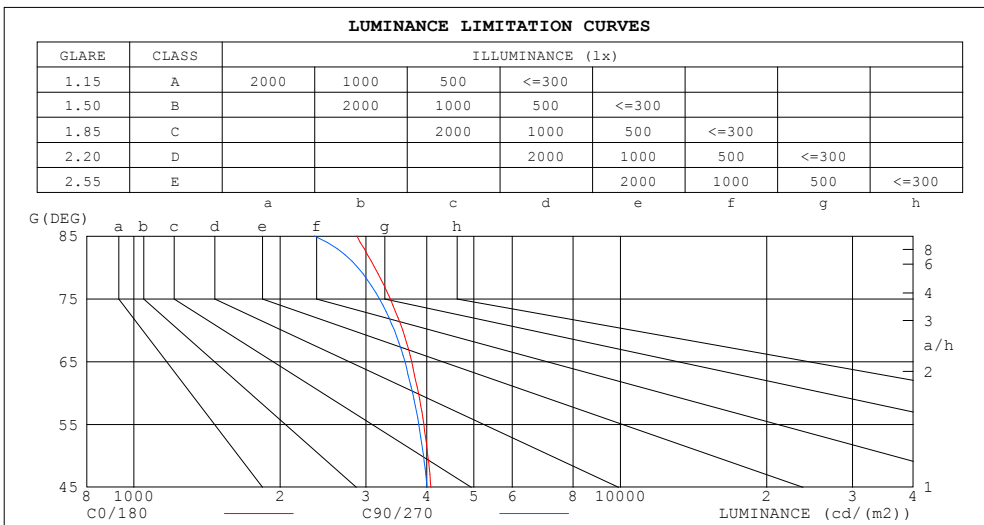
°	C0	C45	C90	C135	C180	C225	C270	C315	°	□ zone	□ total	%lum, lamp
10	580.6	579.0	577.2	577.6	578.2	578.3	579.2	578.7	0- 10	55.70	55.70	3.26,3.26
20	551.9	549.7	547.1	546.1	547.1	548.4	551.0	550.3	10- 20	159.8	215.5	12.6,12.6
30	504.5	501.8	498.5	496.7	497.5	499.9	504.2	503.8	20- 30	242.9	458.4	26.8,26.8
40	439.5	437.7	432.7	432.0	431.8	434.6	440.9	439.6	30- 40	294.2	752.6	44.1,44.1
50	359.4	358.0	352.0	350.8	349.4	354.2	362.3	360.6	40- 50	306.7	1059	62,62
60	267.3	265.2	260.0	257.4	256.1	261.7	270.9	269.1	50- 60	277.7	1337	78.3,78.3
70	169.7	166.6	163.2	158.5	157.1	163.5	172.8	171.0	60- 70	212.3	1549	90.7,90.7
80	75.43	72.09	69.67	64.68	63.84	68.60	77.93	75.76	70- 80	123.6	1673	98,98
90	3.440	1.094	0.6894	0.7178	0.6467	0.7320	1.610	2.893	80- 90	34.52	1707	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:2020-08-31

□ 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:240.45V I:0.0722A P:16.392W PF:0.9441 Freq:50.00Hz Lamp Flux:1707.41x1 lm		
NAME: BLP16W-30/60	TYPE:16W	WEIGHT:
SPEC.:4000K	DIM.:	SERIAL No.:
MFR.:	SUR.:0.552*0.252	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	2876	2351
80	3125	2886
75	3365	3198
70	3569	3432
65	3727	3612
60	3846	3741
55	3946	3852
50	4022	3940
45	4081	4008

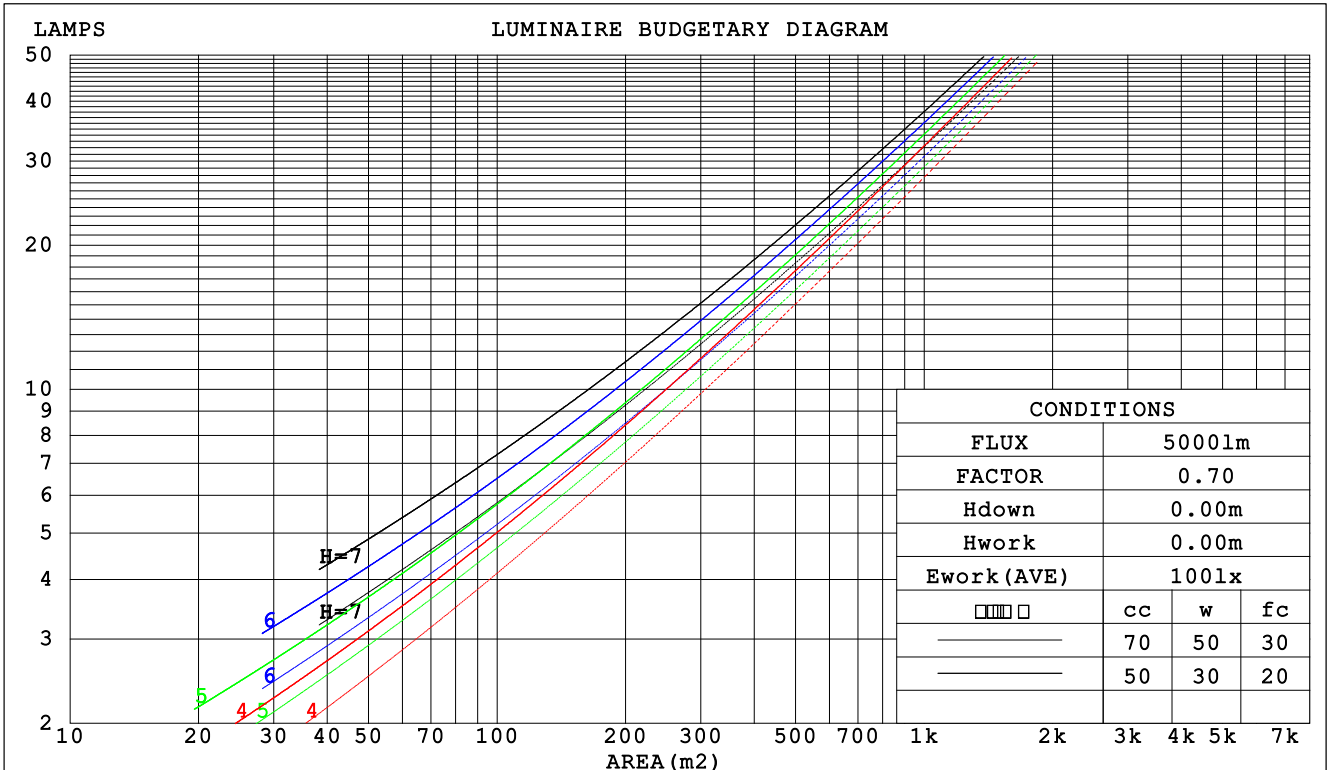
C Range: 0 - 360DEG  
 C Interval: 45.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:DAMIN  
 Test Date:2020-08-31

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:240.45V I:0.0722A P:16.392W PF:0.9441 Freq:50.00Hz Lamp Flux:1707.41x1 lm		
NAME: BLP16W-30/60	TYPE:16W	WEIGHT:
SPEC.:4000K	DIM.:	SERIAL No.:
MFR.:	SUR.:0.552*0.252	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	.91	.88	.90	.87	.85	.83
2.0	.90	.83	.77	.88	.82	.77	.85	.79	.75	.81	.77	.73	.78	.75	.71	.69
3.0	.79	.71	.64	.77	.70	.64	.74	.68	.62	.72	.66	.61	.69	.64	.60	.58
4.0	.70	.61	.54	.69	.60	.54	.66	.59	.53	.64	.57	.52	.62	.56	.52	.49
5.0	.62	.53	.47	.61	.53	.46	.59	.52	.46	.57	.51	.45	.55	.50	.45	.43
6.0	.56	.47	.41	.55	.47	.40	.53	.46	.40	.52	.45	.40	.50	.44	.39	.37
7.0	.51	.42	.36	.50	.42	.36	.49	.41	.35	.47	.40	.35	.46	.40	.35	.33
8.0	.46	.38	.32	.46	.38	.32	.44	.37	.32	.43	.36	.31	.42	.36	.31	.29
9.0	.43	.34	.29	.42	.34	.29	.41	.34	.28	.40	.33	.28	.39	.33	.28	.26
10.0	.39	.31	.26	.39	.31	.26	.38	.31	.26	.37	.30	.26	.36	.30	.26	.24



C Range: 0 - 360DEG  
 C Interval: 45.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:DAMIN  
 Test Date:2020-08-31

□ 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:240.45V I:0.0722A P:16.392W PF:0.9441 Freq:50.00Hz Lamp Flux:1707.41x1 lm		
NAME: BLP16W-30/60	TYPE:16W	WEIGHT:
SPEC.:4000K	DIM.:	SERIAL No.:
MFR.:	SUR.:0.552*0.252	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	.313 .178 .056	.306 .174 .055	.293 .168 .054	.280 .162 .052	.269 .156 .050	
2.0	.294 .161 .049	.288 .159 .049	.276 .154 .048	.265 .149 .047	.255 .144 .046	
3.0	.272 .145 .043	.266 .143 .043	.256 .139 .042	.246 .135 .041	.237 .131 .041	
4.0	.251 .130 .038	.246 .129 .038	.237 .125 .037	.228 .122 .037	.220 .120 .036	
5.0	.232 .118 .034	.227 .117 .034	.219 .114 .034	.211 .112 .033	.204 .109 .033	
6.0	.215 .108 .031	.211 .106 .031	.203 .104 .030	.197 .102 .030	.190 .100 .030	
7.0	.200 .099 .028	.196 .098 .028	.190 .096 .028	.184 .094 .027	.178 .092 .027	
8.0	.186 .091 .026	.183 .090 .026	.178 .089 .025	.172 .087 .025	.167 .086 .025	
9.0	.175 .084 .024	.172 .084 .024	.167 .082 .023	.162 .081 .023	.157 .080 .023	
10.0	.164 .079 .022	.162 .078 .022	.157 .077 .022	.153 .076 .022	.148 .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	.154 .134 .115	.106 .092 .080	.061 .053 .046	.019 .017 .015	
2.0	.173 .132 .098	.148 .114 .084	.101 .079 .059	.058 .046 .035	.019 .015 .011	
3.0	.165 .114 .074	.141 .099 .064	.097 .069 .045	.056 .040 .027	.018 .013 .009	
4.0	.157 .101 .058	.135 .087 .050	.093 .061 .036	.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	.014 .008 .003	
9.0	.123 .065 .025	.106 .056 .022	.073 .039 .016	.043 .023 .009	.014 .008 .003	
10.0	.117 .060 .022	.101 .052 .020	.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:2020-08-31

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:240.45V I:0.0722A P:16.392W PF:0.9441 Freq:50.00Hz Lamp Flux:1707.41x1 lm										
NAME: BLP16W-30/60					TYPE:16W			WEIGHT:		
SPEC.:4000K					DIM.:			SERIAL No.:		
MFR.:					SUR.:0.552*0.252			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	17.7	19.2	18.0	19.4	19.6	17.6	19.1	17.9	19.3	19.5
3H	19.2	20.7	19.5	20.9	21.1	19.1	20.5	19.4	20.8	21.0
4H	19.9	21.2	20.2	21.5	21.7	19.7	21.1	20.0	21.3	21.6
6H	20.4	21.6	20.7	21.9	22.2	20.2	21.4	20.5	21.7	22.0
8H	20.5	21.8	20.9	22.0	22.3	20.3	21.5	20.6	21.8	22.1
12H	20.6	21.8	21.0	22.1	22.4	20.4	21.6	20.7	21.9	22.2
4H 2H	18.3	19.6	18.6	19.9	20.1	18.2	19.6	18.5	19.8	20.1
3H	20.0	21.2	20.4	21.5	21.8	19.9	21.1	20.3	21.4	21.7
4H	20.8	21.9	21.2	22.2	22.5	20.7	21.7	21.0	22.1	22.4
6H	21.4	22.4	21.8	22.7	23.1	21.2	22.2	21.6	22.5	22.9
8H	21.6	22.5	22.0	22.9	23.3	21.4	22.3	21.8	22.7	23.1
12H	21.8	22.6	22.2	23.0	23.4	21.5	22.4	22.0	22.8	23.2
8H 4H	21.1	22.0	21.5	22.3	22.7	21.0	21.8	21.4	22.2	22.6
6H	21.8	22.6	22.3	23.0	23.4	21.7	22.4	22.1	22.8	23.3
8H	22.1	22.8	22.6	23.2	23.7	22.0	22.6	22.4	23.0	23.5
12H	22.4	23.0	22.9	23.4	23.9	22.1	22.7	22.6	23.2	23.6
12H 4H	21.1	21.9	21.5	22.3	22.7	21.0	21.8	21.4	22.2	22.6
6H	21.9	22.6	22.4	23.0	23.4	21.7	22.4	22.2	22.8	23.3
8H	22.3	22.8	22.7	23.3	23.7	22.1	22.6	22.5	23.1	23.6
Variations with the observer position at spacings:										
S = 1.0H	+ 0.1 / - 0.2					+ 0.2 / - 0.2				
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				
2.0H	+ 0.2 / - 0.3					+ 0.1 / - 0.3				

CIE Pub.117, 1707 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 1.9)

C Range: 0 - 360DEG  
 C Interval: 45.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:DAMIN  
 Test Date:2020-08-31

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:240.45V I:0.0722A P:16.392W PF:0.9441 Freq:50.00Hz Lamp Flux:1707.41x1 lm		
NAME: BLP16W-30/60	TYPE:16W	WEIGHT:
SPEC.:4000K	DIM.:	SERIAL No.:
MFR.:	SUR.:0.552*0.252	Shielding Angle:

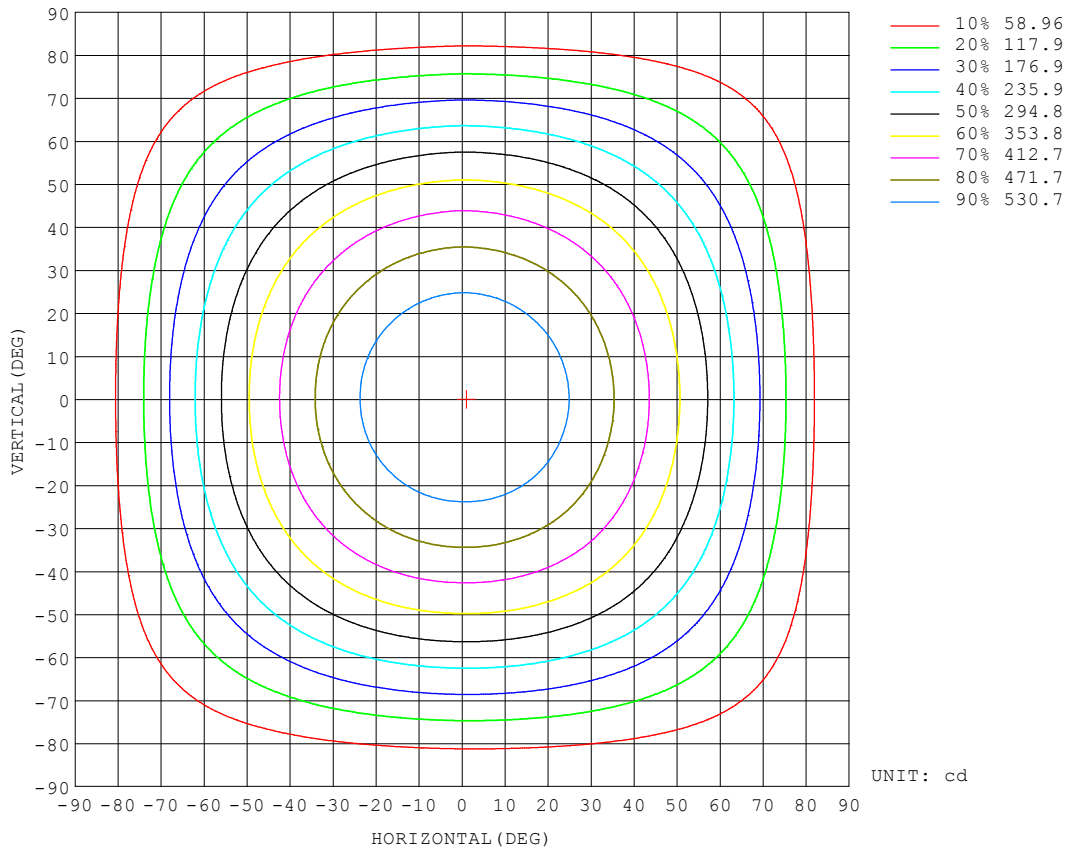
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	57	46	39	56	45	38	55	45	38	32
0.80	67	56	48	66	55	48	64	54	48	41
1.00	76	64	57	74	64	57	72	65	56	49
1.25	83	72	65	81	71	65	79	70	64	56
1.50	88	78	71	86	77	70	83	75	69	62
2.00	95	86	80	93	85	79	89	83	77	69
2.50	99	91	85	97	89	84	93	87	82	74
3.00	102	95	90	100	94	88	96	91	86	78
4.00	106	100	96	104	99	94	99	95	92	83
5.00	109	104	100	106	102	98	102	98	95	86
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:2020-08-31

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:240.45V I:0.0722A P:16.392W PF:0.9441 Freq:50.00Hz Lamp Flux:1707.41x1 lm		
NAME: BLP16W-30/60	TYPE:16W	WEIGHT:
SPEC.:4000K	DIM.:	SERIAL No.:
MFR.:	SUR.:0.552*0.252	Shielding Angle:



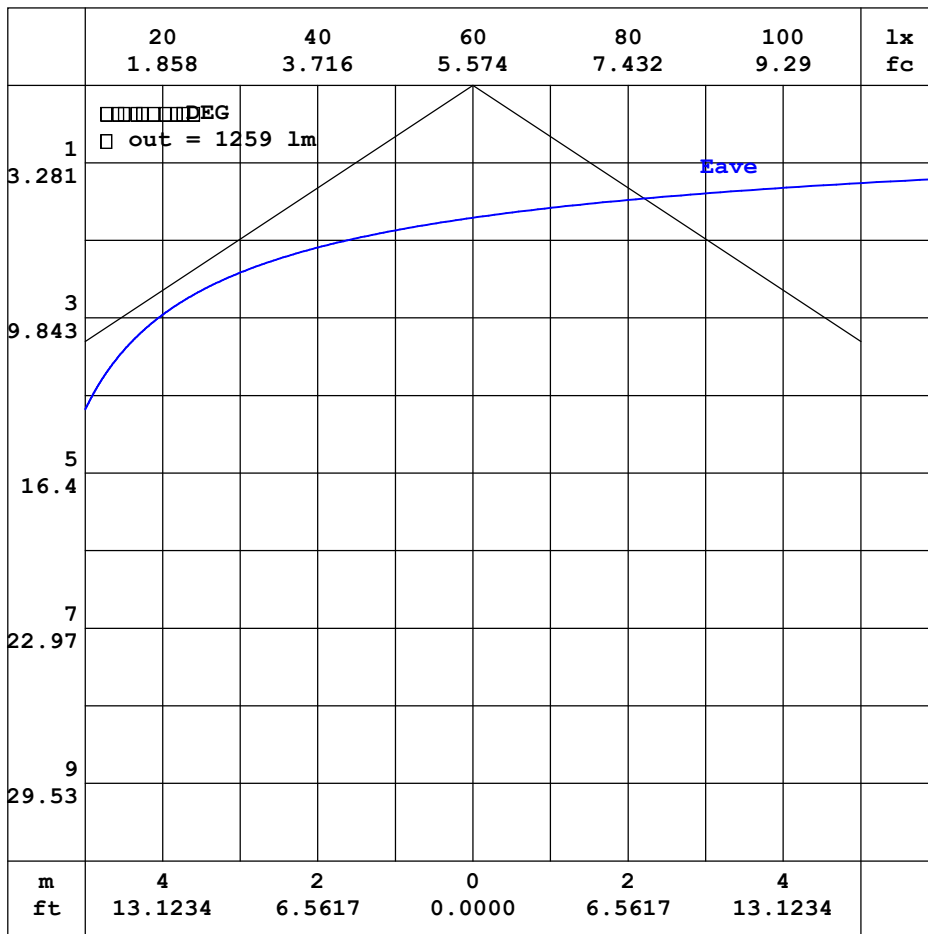
C Range: 0 - 360DEG  
 C Interval: 45.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:DAMIN  
 Test Date:2020-08-31

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:240.45V I:0.0722A P:16.392W PF:0.9441 Freq:50.00Hz Lamp Flux:1707.41x1 lm		
NAME: BLP16W-30/60	TYPE:16W	WEIGHT:
SPEC.:4000K	DIM.:	SERIAL No.:
MFR.:	SUR.:0.552*0.252	Shielding Angle:



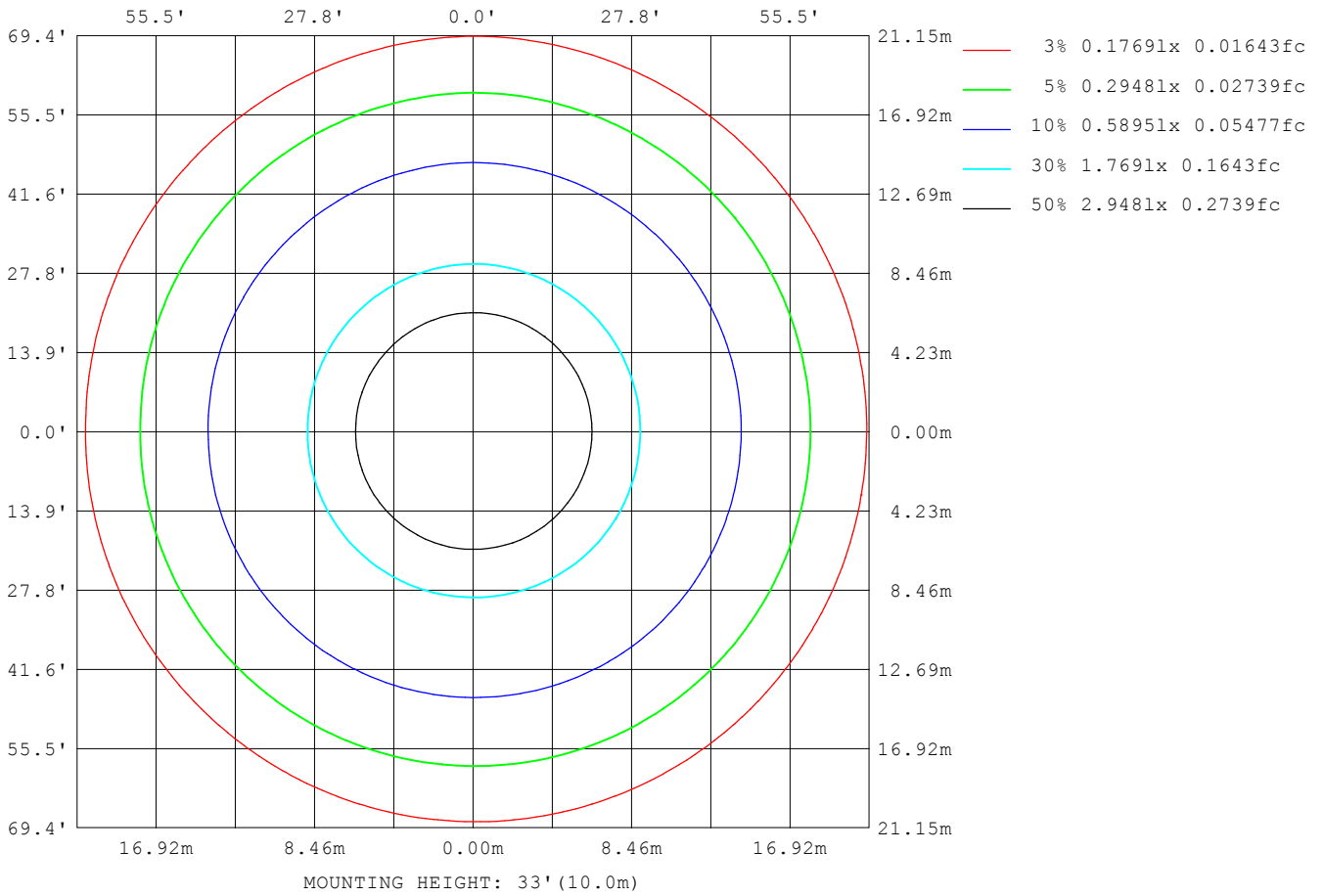
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
 C Interval: 45.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:DAMIN  
 Test Date:2020-08-31

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:240.45V I:0.0722A P:16.392W PF:0.9441 Freq:50.00Hz Lamp Flux:1707.41x1 lm		
NAME: BLP16W-30/60	TYPE:16W	WEIGHT:
SPEC.:4000K	DIM.:	SERIAL No.:
MFR.:	SUR.:0.552*0.252	Shielding Angle:



C Range: 0 - 360DEG  
 C Interval: 45.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:DAMIN  
 Test Date:2020-08-31

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:240.45V I:0.0722A P:16.392W PF:0.9441 Freq:50.00Hz Lamp Flux:1707.41x1 lm		
NAME: BLP16W-30/60	TYPE:16W	WEIGHT:
SPEC.:4000K	DIM.:	SERIAL No.:
MFR.:	SUR.:0.552*0.252	Shielding Angle:

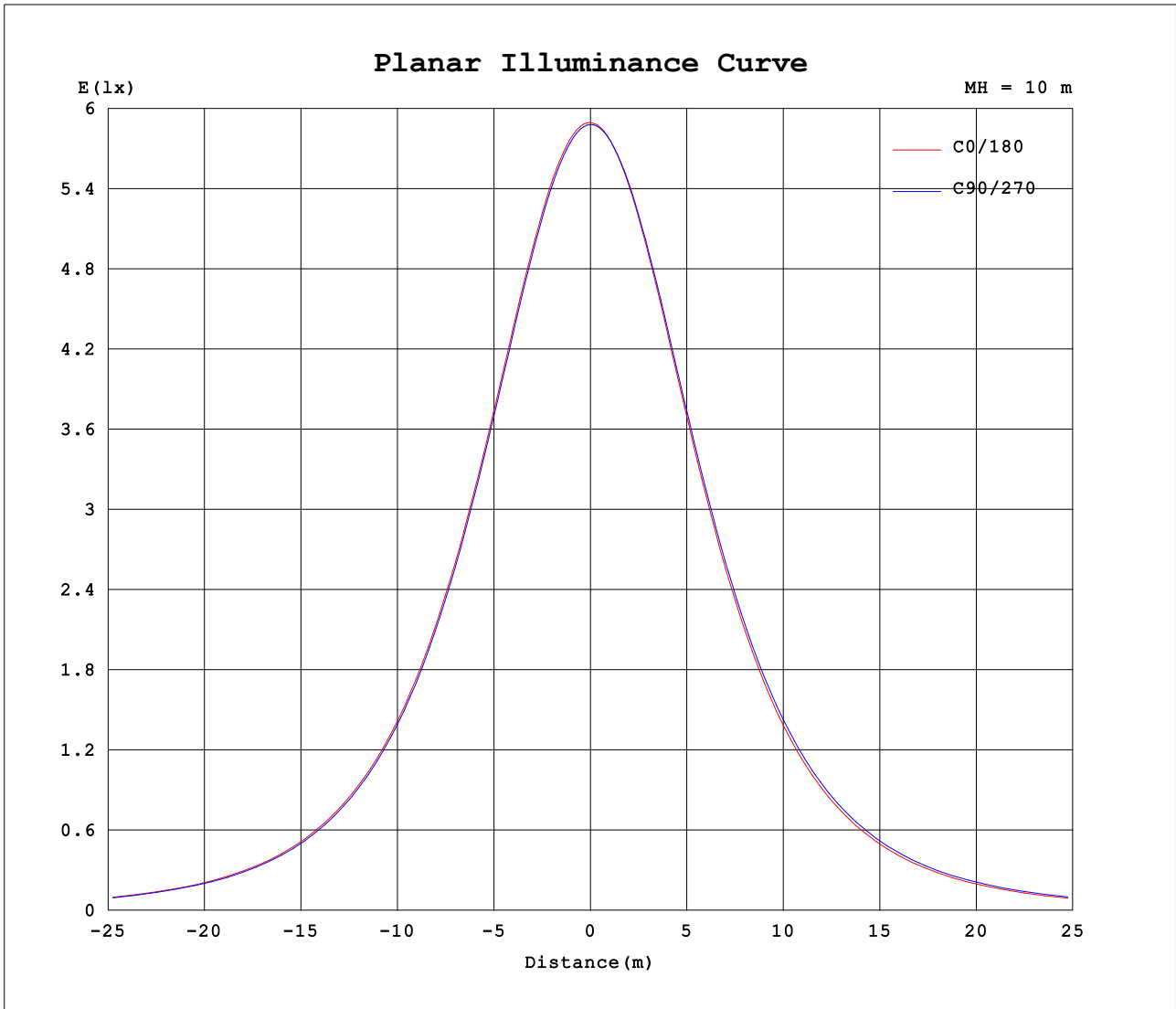
AvgL	cd/m2
L_0~180 (65) av	3624
L_0~180 (75) av	3195
L_0~180 (85) av	2443
L_90~270 (65) av	3697
L_90~270 (75) av	3325
L_90~270 (85) av	2638
L_45 (65) av	3649
L_45 (75) av	3230
L_45 (85) av	2383

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
 C Interval: 45.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:DAMIN  
 Test Date:2020-08-31

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: 2020-08-31

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:

**LUMINOUS DISTRIBUTION INTENSITY DATA**

Test:U:240.45V I:0.0722A P:16.392W PF:0.9441 Freq:50.00Hz Lamp Flux:1707.41x1 lm		
NAME: BLP16W-30/60	TYPE:16W	WEIGHT:
SPEC.:4000K	DIM.:	SERIAL No.:
MFR.:	SUR.:0.552*0.252	Shielding Angle:

Table--1

UNIT: cd

C (DEG) \ □ (DEG)	0	45	90	135	180	225	270	315												
0	590	589	588	588	590	589	588	588												
5	588	586	585	584	586	586	586	586												
10	581	579	577	578	578	578	579	579												
15	569	567	564	564	565	566	567	567												
20	552	550	547	546	547	548	551	550												
25	530	528	525	524	524	526	530	529												
30	504	502	499	497	497	500	504	504												
35	474	472	468	466	466	469	474	473												
40	440	438	433	432	432	435	441	440												
45	401	400	394	393	392	396	404	402												
50	359	358	352	351	349	354	362	361												
55	315	313	307	305	304	309	318	316												
60	267	265	260	257	256	262	271	269												
65	219	216	212	208	207	213	222	220												
70	170	167	163	159	157	163	173	171												
75	121	118	115	110	109	115	124	122												
80	75.4	72.1	69.7	64.7	63.8	68.6	77.9	75.8												
85	34.8	30.4	28.5	24.2	24.3	27.4	35.4	33.5												
90	3.44	1.09	0.69	0.72	0.65	0.73	1.61	2.89												

C Range: 0 - 360DEG  
 C Interval: 45.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:DAMIN  
 Test Date:2020-08-31

□ 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: