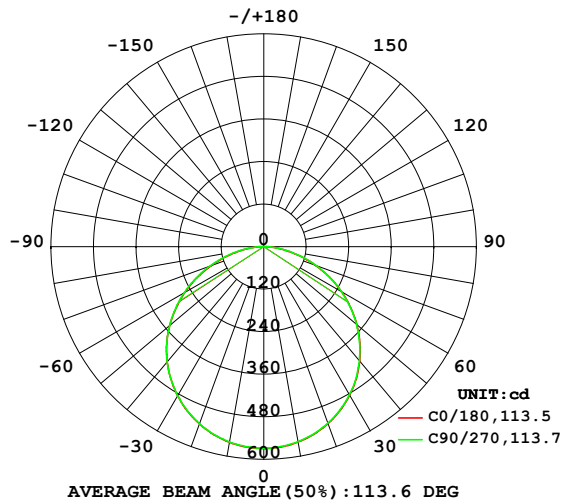


LUMINAIRE PHOTOMETRIC TEST REPORT

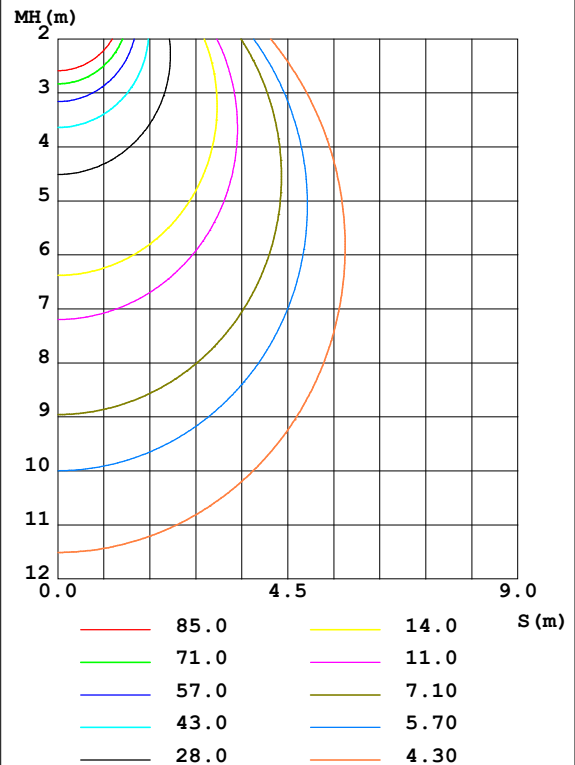
Test:U:240.53V I:0.0717A P:16.209W PF:0.9404 Freq:50.00Hz Lamp Flux:1648.1x1 lm		
NAME: BLP16W-3060-CC 3000K	TYPE:16W	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:1
MFR.:	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 101.68 lm/W			
MODEL	BLP16W-3060-CC 3000K	I _{max} (cd)	569.6	S/MH(C0/180)	1.26
NOMINAL POWER(W)	16	LOR(%)	100.0	S/MH(C90/270)	1.27
RATED VOLTAGE(V)	240	TOTAL FLUX(lm)	1648.1	□ UP,DN(C0-180)	0.0,49.8
NOMINAL FLUX(lm)	1648.1	CIE CLASS	DIRECT	□ UP,DN(C180-360)	0.0,50.2
LAMPS INSIDE	1	□ up(%)	0.0	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	240	□ down(%)	100.0	CIBSE SHR MAX	1.35

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: DAMIN
 Test Date: 2021-12-01

□ 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:

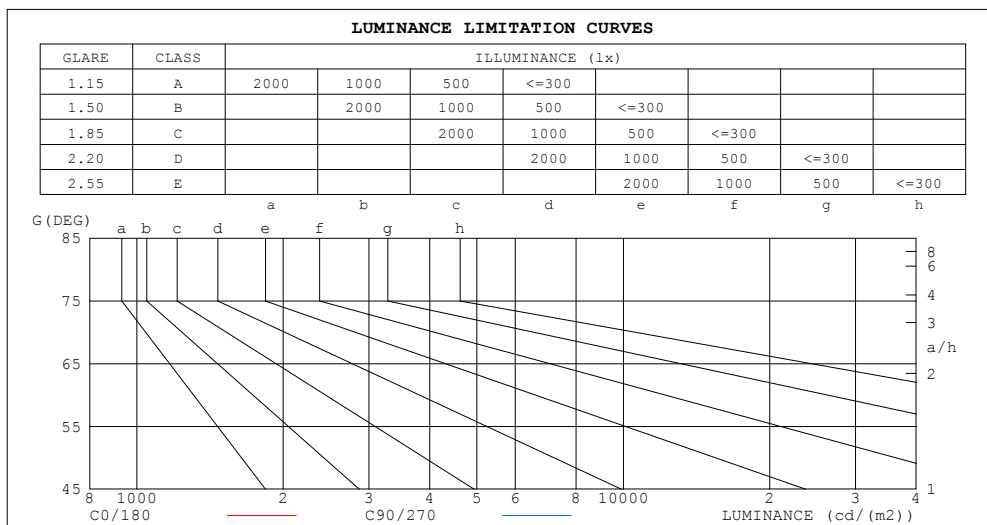
°	C0	C45	C90	C135	C180	C225	C270	C315	°	□ zone	□ total	%lum, lamp
10	559.6	559.2	558.4	558.7	560.1	559.4	559.2	558.4	0- 10	53.83	53.83	3.27,3.27
20	530.9	530.6	529.8	530.2	531.9	531.2	531.3	530.0	10- 20	154.5	208.3	12.6,12.6
30	484.4	484.3	483.2	484.3	486.0	485.1	485.5	483.8	20- 30	235.0	443.3	26.9,26.9
40	421.1	422.7	419.8	422.9	424.2	422.7	424.3	421.4	30- 40	284.9	728.2	44.2,44.2
50	343.0	344.6	341.7	345.3	346.6	345.6	347.4	343.9	40- 50	297.1	1025	62.2,62.2
60	252.8	254.1	252.3	255.2	256.4	255.7	258.1	254.1	50- 60	268.9	1294	78.5,78.5
70	156.2	156.6	157.9	157.8	159.0	159.9	162.8	158.3	60- 70	204.9	1499	91,91
80	63.78	64.06	66.66	65.04	65.58	67.25	71.20	66.09	70- 80	117.4	1616	98.1,98.1
90	0.7462	0.8386	0.7747	0.8386	0.7249	1.137	0.9239	0.9026	80- 90	31.61	1648	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:2021-12-01

□ 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:240.53V I:0.0717A P:16.209W PF:0.9404 Freq:50.00Hz Lamp Flux:1648.1x1 lm		
NAME: BLP16W-3060-CC 3000K	TYPE:16W	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:1
MFR.:	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	298	312
80	367	384
75	417	428
70	457	462
65	486	487
60	506	505
55	522	520
50	534	532
45	543	541

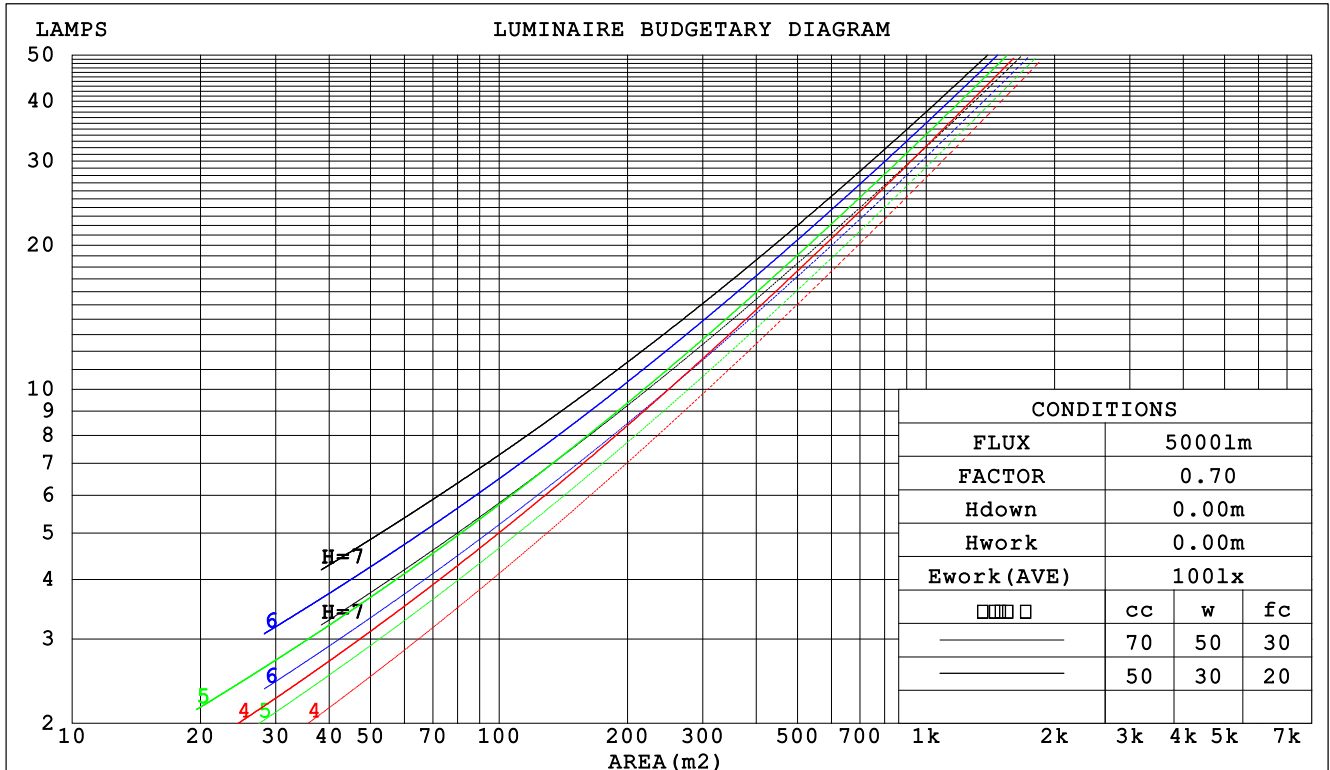
C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2021-12-01

☐ 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:240.53V I:0.0717A P:16.209W PF:0.9404 Freq:50.00Hz Lamp Flux:1648.1x1 lm		
NAME: BLP16W-3060-CC 3000K	TYPE:16W	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:1
MFR.:	SUR.:	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															



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2021-12-01

□ 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:240.53V I:0.0717A P:16.209W PF:0.9404 Freq:50.00Hz Lamp Flux:1648.1x1 lm					
NAME: BLP16W-3060-CC 3000K			TYPE:16W		WEIGHT:
SPEC.:3000K			DIM.:		SERIAL No.:1
MFR.:			SUR.:		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															Wall Exitance Coefficients (WEC)														
0.0																														
1.0	.311	.177	.056	.304	.174	.055	.291	.167	.053	.279	.161	.052	.268	.155	.050															
2.0	.293	.161	.049	.287	.158	.049	.275	.153	.048	.264	.148	.046	.254	.144	.045															
3.0	.271	.144	.043	.266	.142	.043	.255	.138	.042	.246	.135	.041	.237	.131	.041															
4.0	.250	.130	.038	.245	.128	.038	.236	.125	.037	.228	.122	.037	.220	.119	.036															
5.0	.231	.118	.034	.227	.116	.034	.219	.114	.034	.211	.111	.033	.204	.109	.033															
6.0	.214	.107	.031	.211	.106	.031	.203	.104	.030	.196	.102	.030	.190	.100	.030															
7.0	.199	.099	.028	.196	.098	.028	.190	.096	.028	.183	.094	.027	.178	.092	.027															
8.0	.186	.091	.026	.183	.090	.025	.177	.089	.025	.172	.087	.025	.167	.086	.025															
9.0	.175	.084	.024	.172	.084	.023	.167	.082	.023	.162	.081	.023	.157	.080	.023															
10.0	.164	.079	.022	.162	.078	.022	.157	.077	.022	.152	.076	.022	.148	.075	.021															

☐ 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						Ceiling Cavity Exitance Coefficients(CCEC)										
0.0	.190	.190	.190	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020		
1.0	.180	.156	.134	.154	.134	.116	.106	.092	.080	.061	.053	.046	.019	.017	.015		
2.0	.172	.132	.098	.148	.114	.085	.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	.051	.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	.142	.082	.039	.122	.071	.034	.084	.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:2021-12-01

☐ 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:240.53V I:0.0717A P:16.209W PF:0.9404 Freq:50.00Hz Lamp Flux:1648.1x1 lm										
NAME: BLP16W-3060-CC 3000K					TYPE:16W			WEIGHT:		
SPEC.:3000K					DIM.:			SERIAL No.:1		
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	10.6	12.1	10.9	12.4	12.6	10.6	12.1	10.9	12.3	12.6
3H	12.1	13.5	12.4	13.8	14.0	12.1	13.5	12.4	13.8	14.0
4H	12.7	14.0	13.0	14.3	14.6	12.7	14.1	13.0	14.3	14.6
6H	13.1	14.4	13.4	14.6	14.9	13.2	14.4	13.5	14.7	15.0
8H	13.2	14.4	13.6	14.7	15.0	13.3	14.5	13.6	14.8	15.1
12H	13.3	14.5	13.6	14.8	15.1	13.4	14.5	13.7	14.8	15.1
4H 2H	11.2	12.6	11.5	12.8	13.1	11.2	12.6	11.5	12.8	13.1
3H	12.9	14.1	13.3	14.4	14.7	12.9	14.1	13.3	14.4	14.7
4H	13.6	14.7	14.0	15.0	15.3	13.6	14.7	14.0	15.0	15.4
6H	14.1	15.1	14.5	15.4	15.8	14.2	15.1	14.6	15.5	15.9
8H	14.3	15.2	14.7	15.6	15.9	14.4	15.3	14.8	15.6	16.0
12H	14.4	15.2	14.8	15.6	16.0	14.5	15.3	14.9	15.7	16.1
8H 4H	13.9	14.8	14.3	15.1	15.5	13.9	14.8	14.3	15.2	15.5
6H	14.5	15.3	15.0	15.7	16.1	14.6	15.3	15.0	15.7	16.2
8H	14.8	15.4	15.2	15.9	16.3	14.9	15.5	15.3	15.9	16.4
12H	15.0	15.5	15.4	16.0	16.4	15.0	15.6	15.5	16.0	16.5
12H 4H	13.9	14.7	14.3	15.1	15.5	13.9	14.7	14.3	15.1	15.5
6H	14.6	15.2	15.0	15.7	16.1	14.6	15.3	15.1	15.7	16.2
8H	14.9	15.4	15.3	15.9	16.4	14.9	15.5	15.4	16.0	16.4
Variations with the observer position at spacings:										
S = 1.0H	+ 0.2 / - 0.2					+ 0.2 / - 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, 1648 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = 1.7$)

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2021-12-01

☐ 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:240.53V I:0.0717A P:16.209W PF:0.9404 Freq:50.00Hz Lamp Flux:1648.1x1 lm		
NAME: BLP16W-3060-CC 3000K	TYPE:16W	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:1
MFR.:	SUR.:	Shielding Angle:

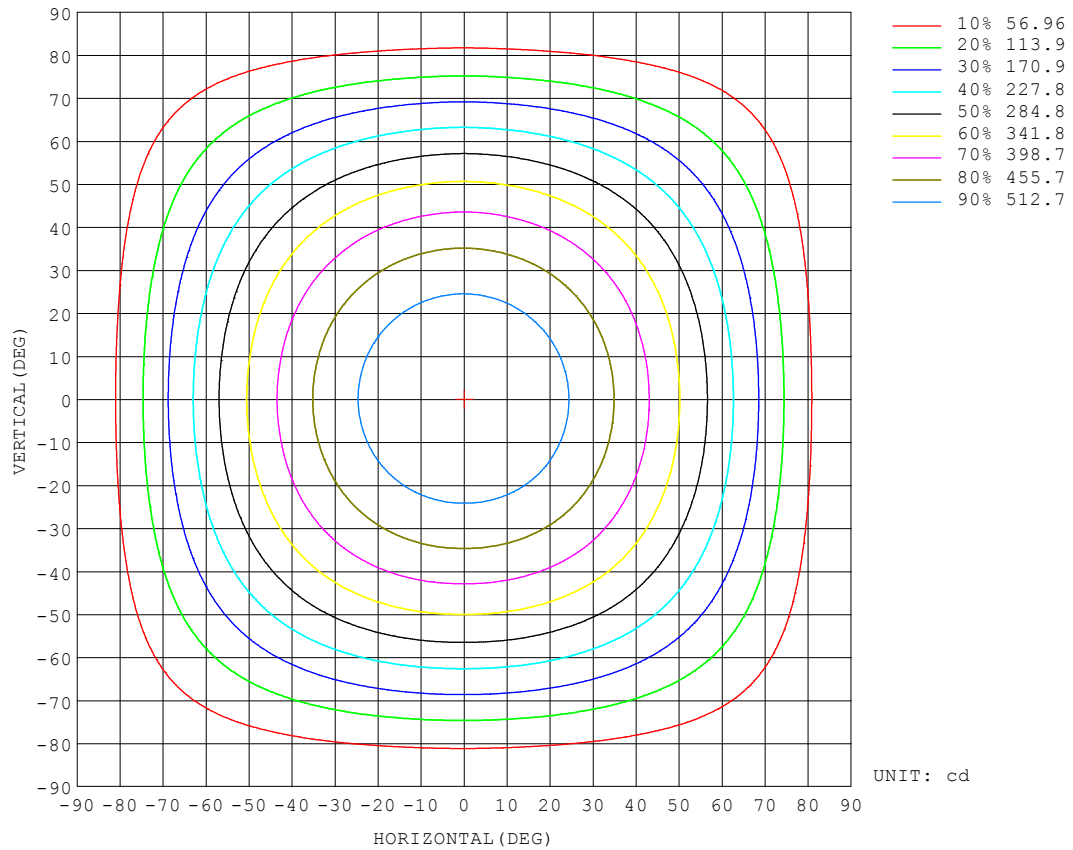
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	57	46	39	57	45	38	55	45	38	32
0.80	67	56	48	66	55	48	64	54	48	41
1.00	76	65	57	75	64	57	72	65	56	49
1.25	83	72	65	81	72	65	79	70	64	57
1.50	88	78	71	86	77	70	83	75	69	62
2.00	95	86	80	93	85	79	89	83	77	70
2.50	99	91	85	97	90	84	93	87	82	74
3.00	102	95	90	100	94	89	96	91	86	78
4.00	106	100	96	104	99	94	100	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:2021-12-01

☐ 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:240.53V I:0.0717A P:16.209W PF:0.9404 Freq:50.00Hz Lamp Flux:1648.1x1 lm		
NAME: BLP16W-3060-CC 3000K	TYPE:16W	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:1
MFR.:	SUR.:	Shielding Angle:

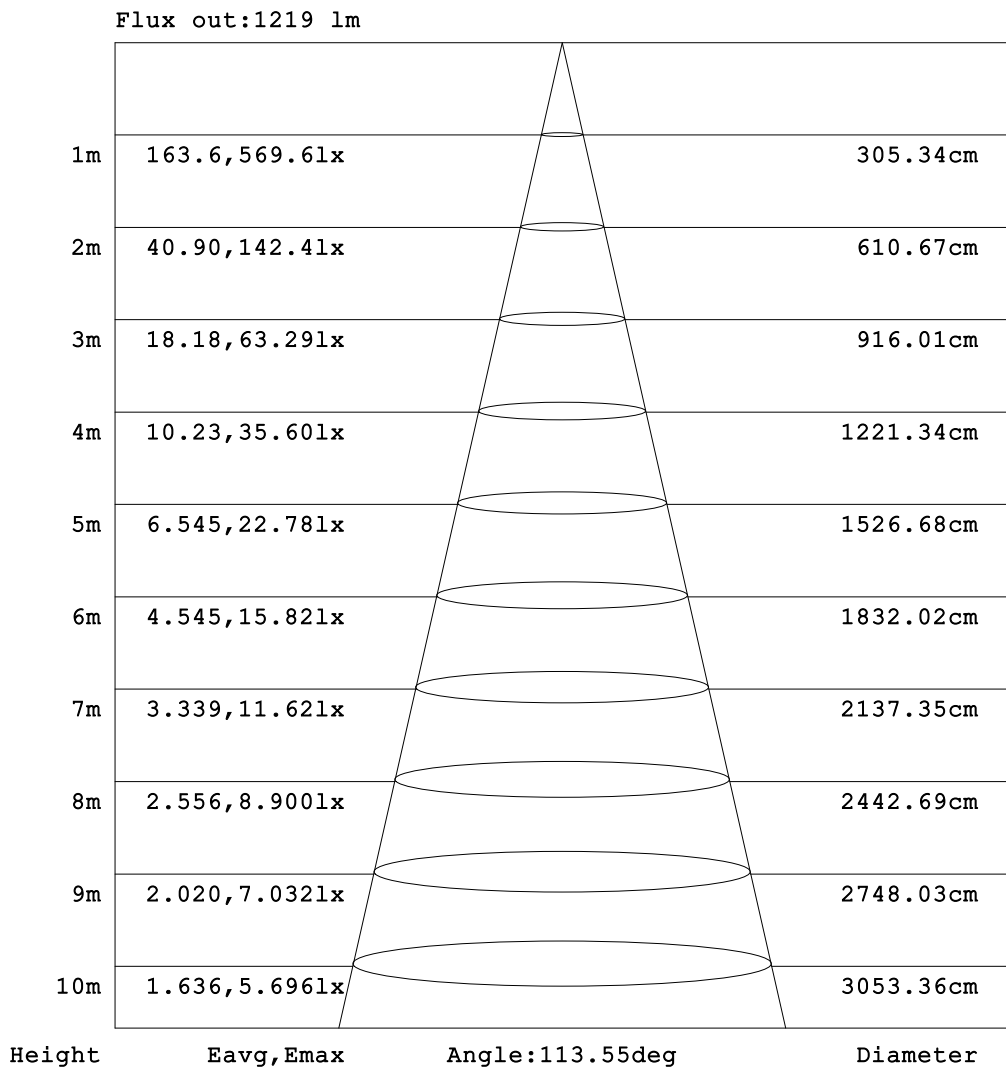


C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2021-12-01

☐ 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 Figure

Test:U:240.53V I:0.0717A P:16.209W PF:0.9404 Freq:50.00Hz Lamp Flux:1648.1x1 lm		
NAME: BLP16W-3060-CC 3000K	TYPE:16W	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:1
MFR.:	SUR.:	Shielding Angle:



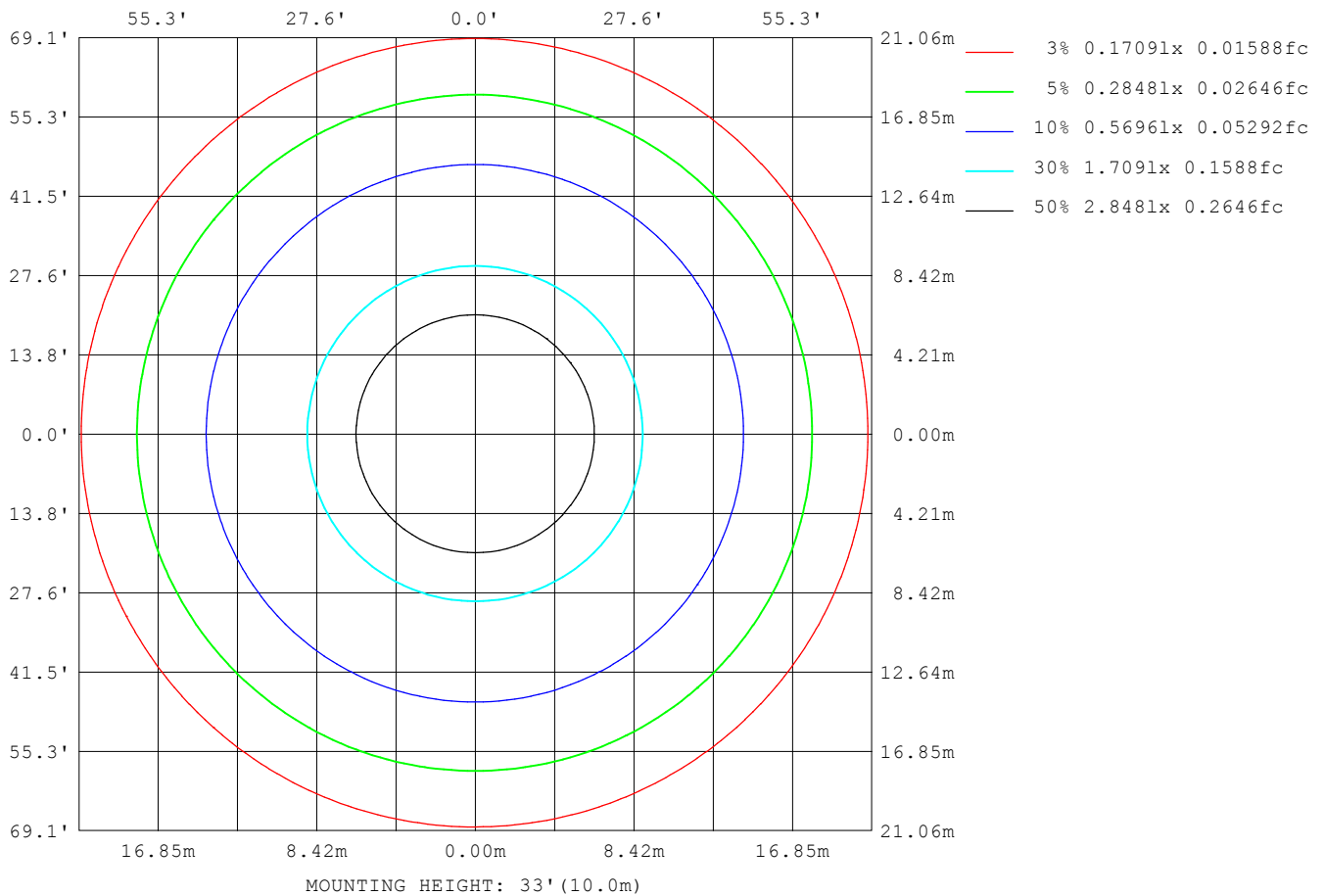
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2021-12-01

☐ 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:240.53V I:0.0717A P:16.209W PF:0.9404 Freq:50.00Hz Lamp Flux:1648.1x1 lm		
NAME: BLP16W-3060-CC 3000K	TYPE:16W	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:1
MFR.:	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2021-12-01

☐ 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:240.53V I:0.0717A P:16.209W PF:0.9404 Freq:50.00Hz Lamp Flux:1648.1x1 lm		
NAME: BLP16W-3060-CC 3000K	TYPE:16W	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:1
MFR.:	SUR.:	Shielding Angle:

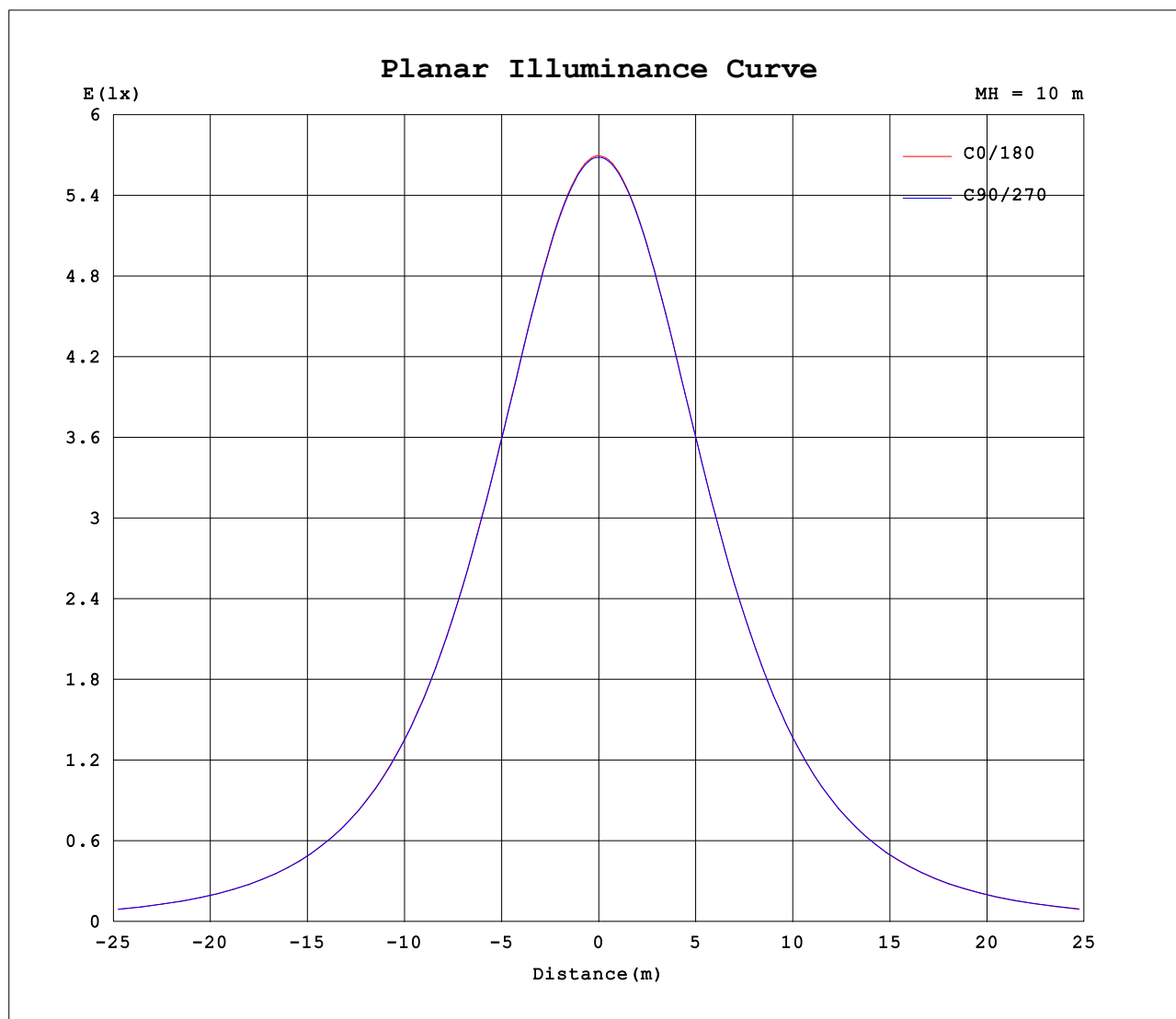
AvgL	cd/m2
L_0~180 (65) av	489
L_0~180 (75) av	422
L_0~180 (85) av	303
L_90~270 (65) av	493
L_90~270 (75) av	437
L_90~270 (85) av	335
L_45 (65) av	490
L_45 (75) av	426
L_45 (85) av	302

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
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 Test Date:2021-12-01

☐ 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: 2021-12-01

☐ 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:

```

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:

```