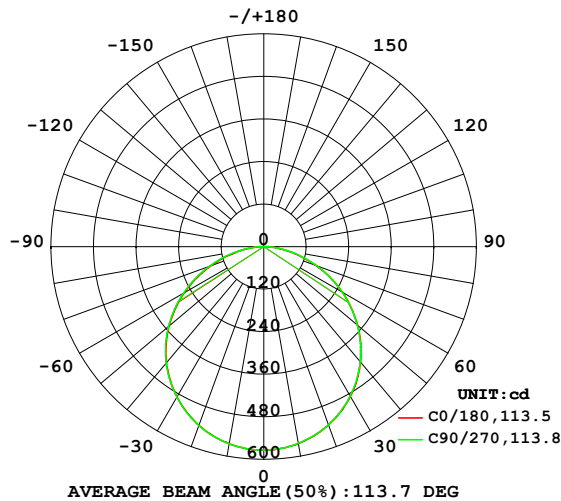


LUMINAIRE PHOTOMETRIC TEST REPORT

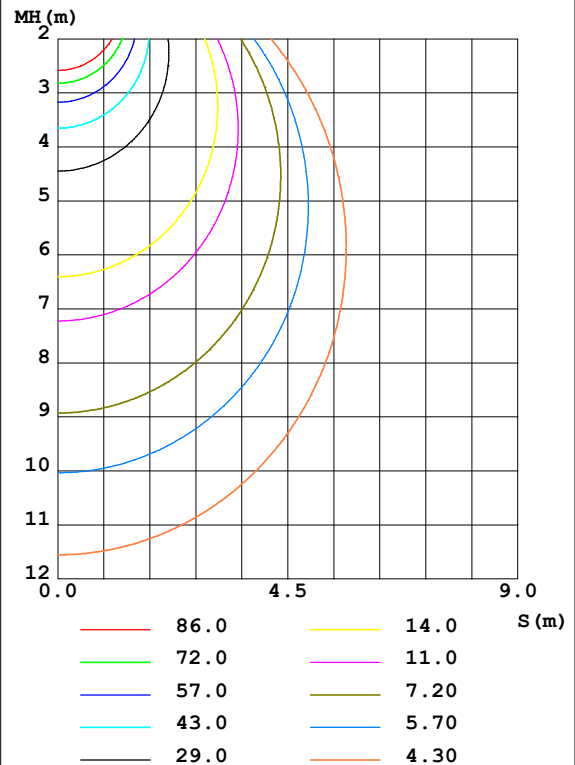
Test:U:240.60V I:0.0713A P:16.112W PF:0.9399 Freq:50.00Hz Lamp Flux:1663x1 lm		
NAME: BLP16W-3060-CC 5700K	TYPE:16W	WEIGHT:
SPEC.:5700K	DIM.:	SERIAL No.:1
MFR.:	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 103.21 lm/W			
MODEL	BLP16W-3060-CC 5700K	I _{max} (cd)	574.0	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)	1663.0	□ UP,DN(C0-180)	0.0,49.8
NOMINAL FLUX(lm)	1663	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:

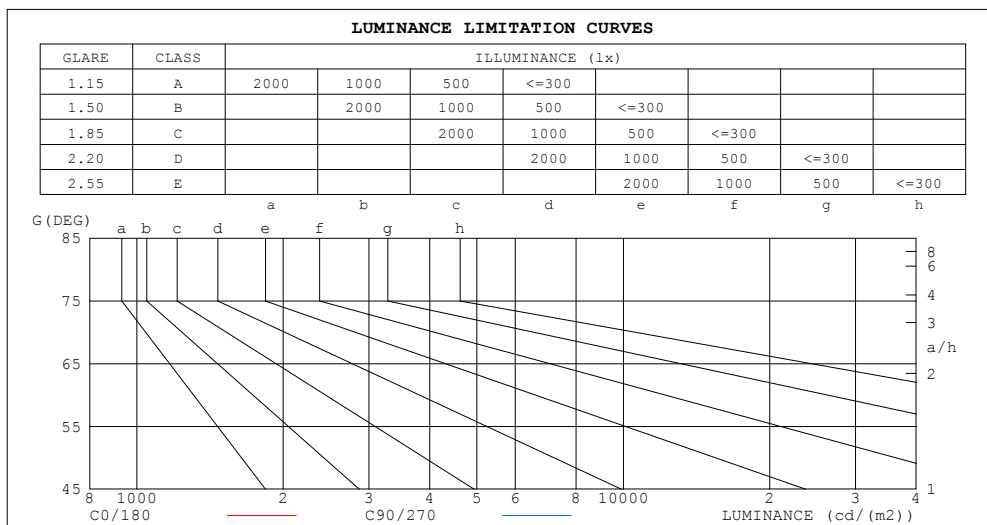
°	C0	C45	C90	C135	C180	C225	C270	C315	°	□ zone	□ total	%lum, lamp
10	563.9	563.7	563.3	563.8	564.5	564.4	564.6	564.2	0- 10	54.30	54.30	3.27,3.27
20	535.0	534.7	534.2	535.1	536.0	536.1	536.7	535.6	10- 20	155.8	210.1	12.6,12.6
30	488.2	488.0	487.0	488.5	489.7	489.7	490.8	489.0	20- 30	237.0	447.2	26.9,26.9
40	424.4	425.6	423.0	427.3	427.8	427.0	429.2	426.1	30- 40	287.4	734.6	44.2,44.2
50	345.6	347.0	344.4	348.1	349.1	349.1	351.5	348.0	40- 50	299.8	1034	62.2,62.2
60	254.8	255.8	254.5	257.2	258.1	258.5	261.3	257.1	50- 60	271.3	1306	78.5,78.5
70	157.3	157.8	159.4	159.2	160.1	161.7	165.1	160.4	60- 70	206.8	1512	90.9,90.9
80	64.24	64.72	67.51	65.71	65.93	68.09	72.26	67.14	70- 80	118.6	1631	98.1,98.1
90	0.7533	0.8386	0.7889	0.8457	0.7249	1.137	0.9310	0.9239	80- 90	31.97	1663	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:240.60V I:0.0713A P:16.112W PF:0.9399 Freq:50.00Hz Lamp Flux:1663x1 lm		
NAME: BLP16W-3060-CC 5700K	TYPE:16W	WEIGHT:
SPEC.:5700K	DIM.:	SERIAL No.:1
MFR.:	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	300	318
80	370	389
75	420	432
70	460	466
65	489	491
60	510	509
55	526	524
50	538	536
45	547	545

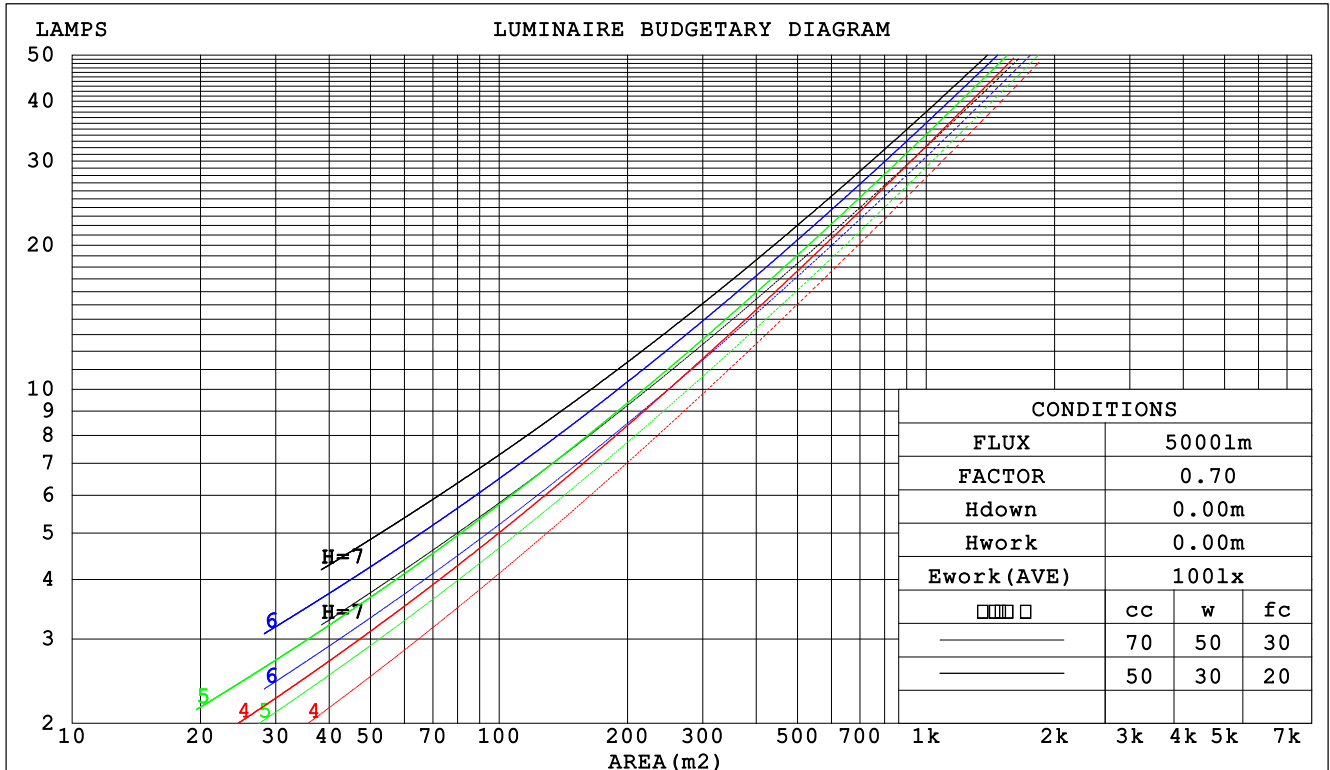
C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2021-12-01

☐ 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:240.60V I:0.0713A P:16.112W PF:0.9399 Freq:50.00Hz Lamp Flux:1663x1 lm		
NAME: BLP16W-3060-CC 5700K	TYPE:16W	WEIGHT:
SPEC.:5700K	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:240.60V I:0.0713A P:16.112W PF:0.9399 Freq:50.00Hz Lamp Flux:1663x1 lm					
NAME: BLP16W-3060-CC 5700K			TYPE:16W		WEIGHT:
SPEC.:5700K			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	.143	.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:240.60V I:0.0713A P:16.112W PF:0.9399 Freq:50.00Hz Lamp Flux:1663x1 lm										
NAME: BLP16W-3060-CC 5700K					TYPE:16W			WEIGHT:		
SPEC.:5700K					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	12.2	10.9	12.4	12.6	10.6	12.2	10.9	12.4	12.6
3H	12.1	13.6	12.4	13.8	14.0	12.2	13.6	12.5	13.8	14.0
4H	12.7	14.1	13.0	14.3	14.6	12.8	14.1	13.1	14.4	14.6
6H	13.1	14.4	13.5	14.7	14.9	13.2	14.5	13.5	14.7	15.0
8H	13.2	14.5	13.6	14.7	15.0	13.3	14.5	13.7	14.8	15.1
12H	13.3	14.5	13.7	14.8	15.1	13.4	14.6	13.7	14.9	15.2
4H 2H	11.2	12.6	11.6	12.8	13.1	11.2	12.6	11.6	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	15.4	13.7	14.7	14.0	15.1	15.4
6H	14.1	15.1	14.5	15.5	15.8	14.2	15.2	14.6	15.5	15.9
8H	14.3	15.2	14.7	15.6	16.0	14.4	15.3	14.8	15.7	16.1
12H	14.4	15.2	14.9	15.6	16.0	14.5	15.3	15.0	15.7	16.1
8H 4H	13.9	14.8	14.3	15.1	15.5	13.9	14.8	14.3	15.2	15.6
6H	14.6	15.3	15.0	15.7	16.1	14.6	15.4	15.1	15.8	16.2
8H	14.8	15.5	15.3	15.9	16.3	14.9	15.5	15.3	16.0	16.4
12H	15.0	15.5	15.4	16.0	16.5	15.1	15.6	15.5	16.1	16.6
12H 4H	13.9	14.7	14.3	15.1	15.5	13.9	14.7	14.4	15.1	15.5
6H	14.6	15.3	15.1	15.7	16.1	14.7	15.3	15.1	15.8	16.2
8H	14.9	15.5	15.4	15.9	16.4	15.0	15.5	15.4	16.0	16.5
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, 1663 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = 1.8$)

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:240.60V I:0.0713A P:16.112W PF:0.9399 Freq:50.00Hz Lamp Flux:1663x1 lm		
NAME: BLP16W-3060-CC 5700K	TYPE:16W	WEIGHT:
SPEC.:5700K	DIM.:	SERIAL No.:1
MFR.:	SUR.:	Shielding Angle:

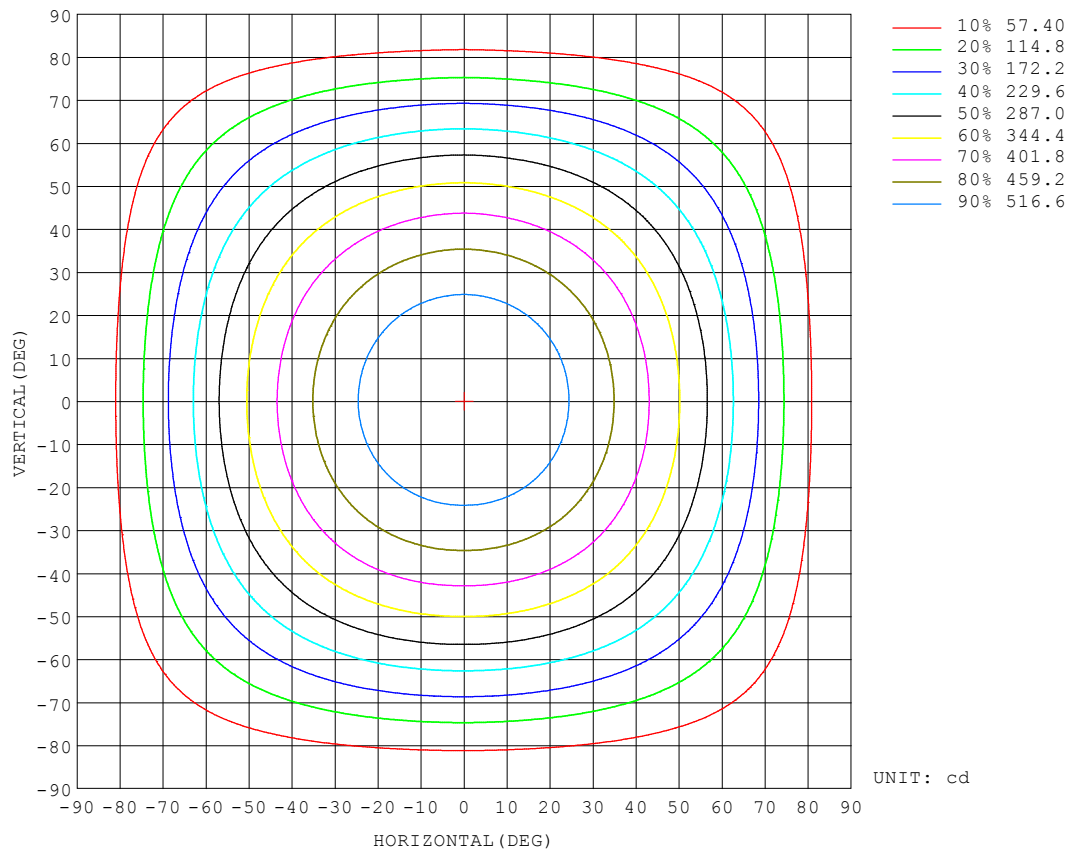
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	57	46	39	57	45	38	55	45	38	32
0.80	67	56	48	66	55	48	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		

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C Interval: 45.0DEG
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Temperature:25.3DEG
Operators:DAMIN
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☐ 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:240.60V I:0.0713A P:16.112W PF:0.9399 Freq:50.00Hz Lamp Flux:1663x1 lm		
NAME: BLP16W-3060-CC 5700K	TYPE:16W	WEIGHT:
SPEC.:5700K	DIM.:	SERIAL No.:1
MFR.:	SUR.:	Shielding Angle:

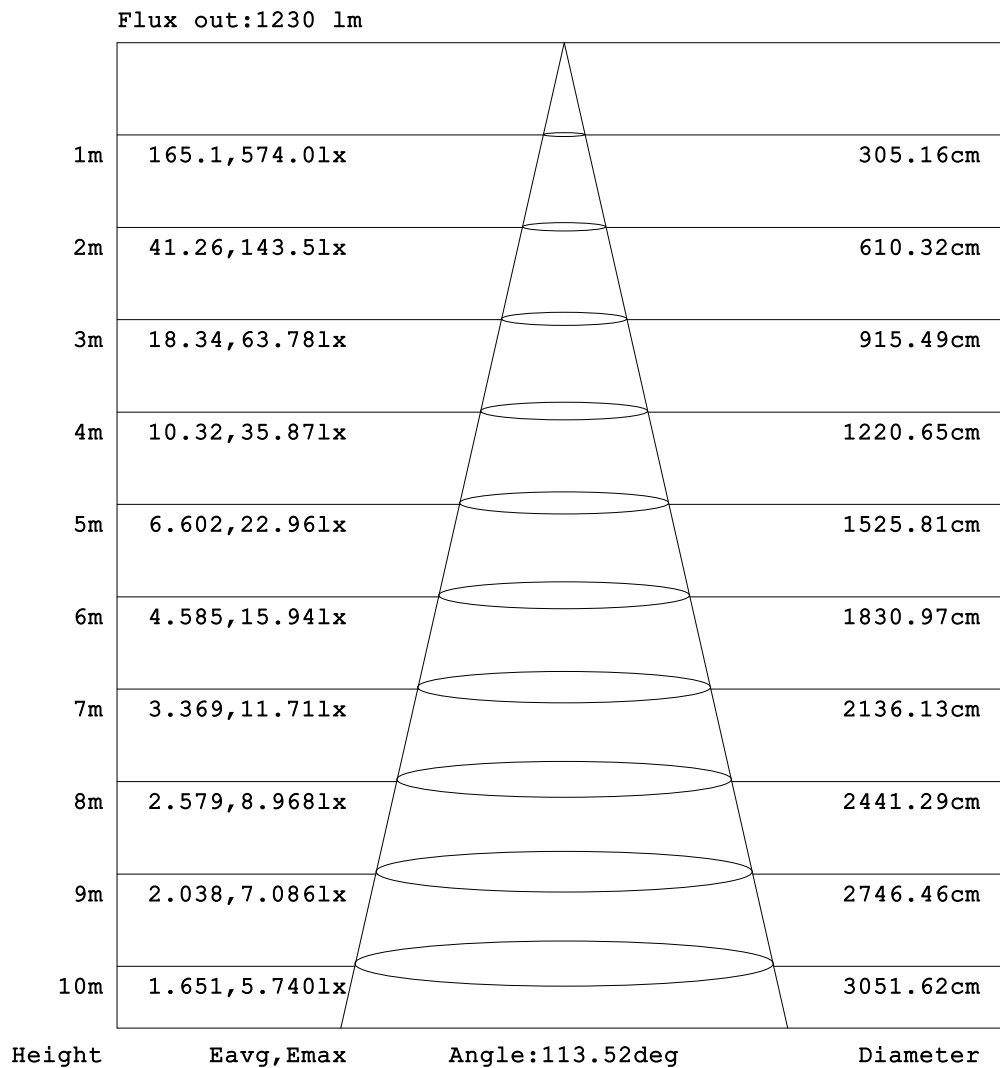


C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
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Operators:DAMIN
Test Date:2021-12-01

☐ 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:240.60V I:0.0713A P:16.112W PF:0.9399 Freq:50.00Hz Lamp Flux:1663x1 lm		
NAME: BLP16W-3060-CC 5700K	TYPE:16W	WEIGHT:
SPEC.:5700K	DIM.:	SERIAL No.:1
MFR.:	SUR.:	Shielding Angle:



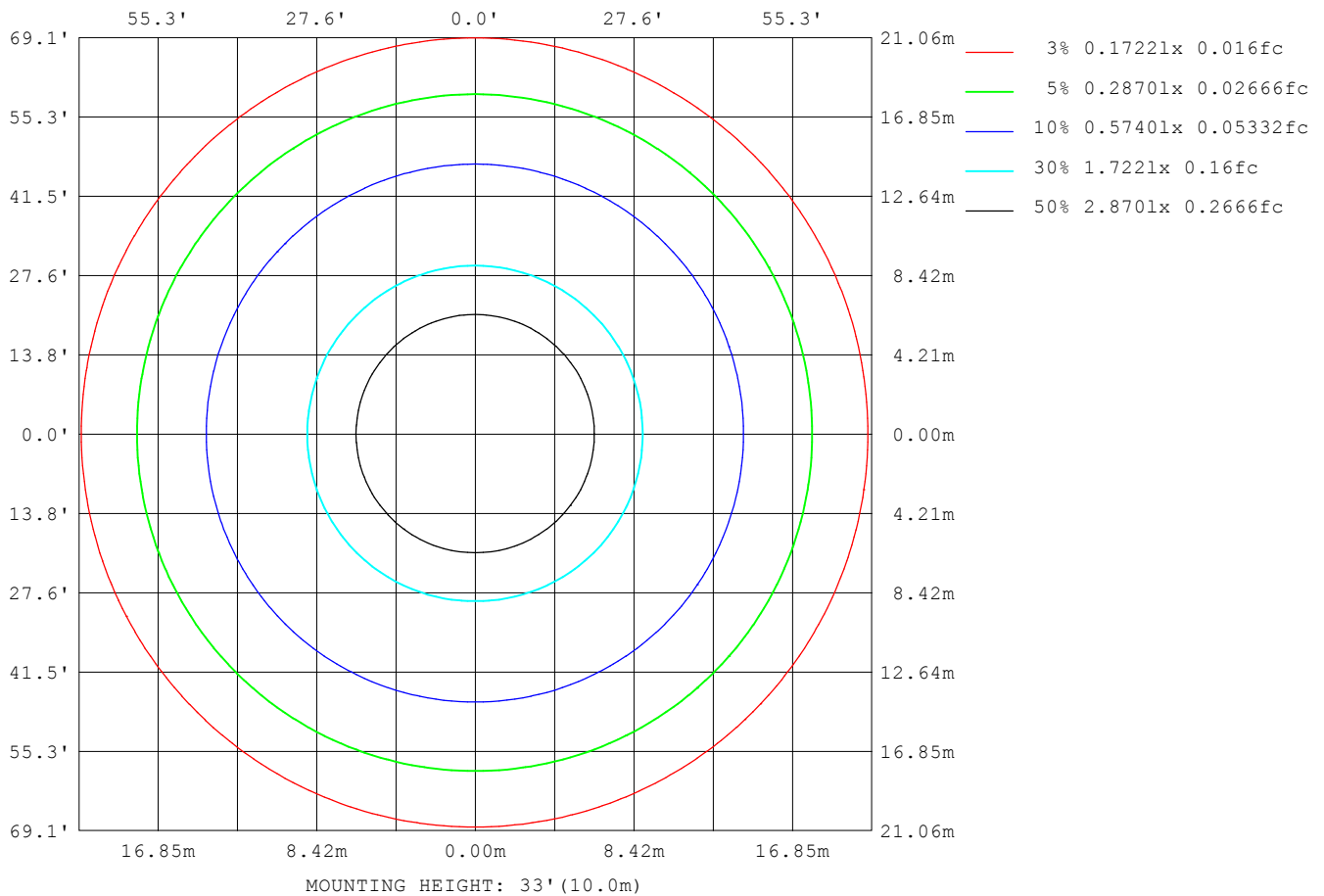
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:240.60V I:0.0713A P:16.112W PF:0.9399 Freq:50.00Hz Lamp Flux:1663x1 lm		
NAME: BLP16W-3060-CC 5700K	TYPE:16W	WEIGHT:
SPEC.:5700K	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:240.60V I:0.0713A P:16.112W PF:0.9399 Freq:50.00Hz Lamp Flux:1663x1 lm		
NAME: BLP16W-3060-CC 5700K	TYPE:16W	WEIGHT:
SPEC.:5700K	DIM.:	SERIAL No.:1
MFR.:	SUR.:	Shielding Angle:

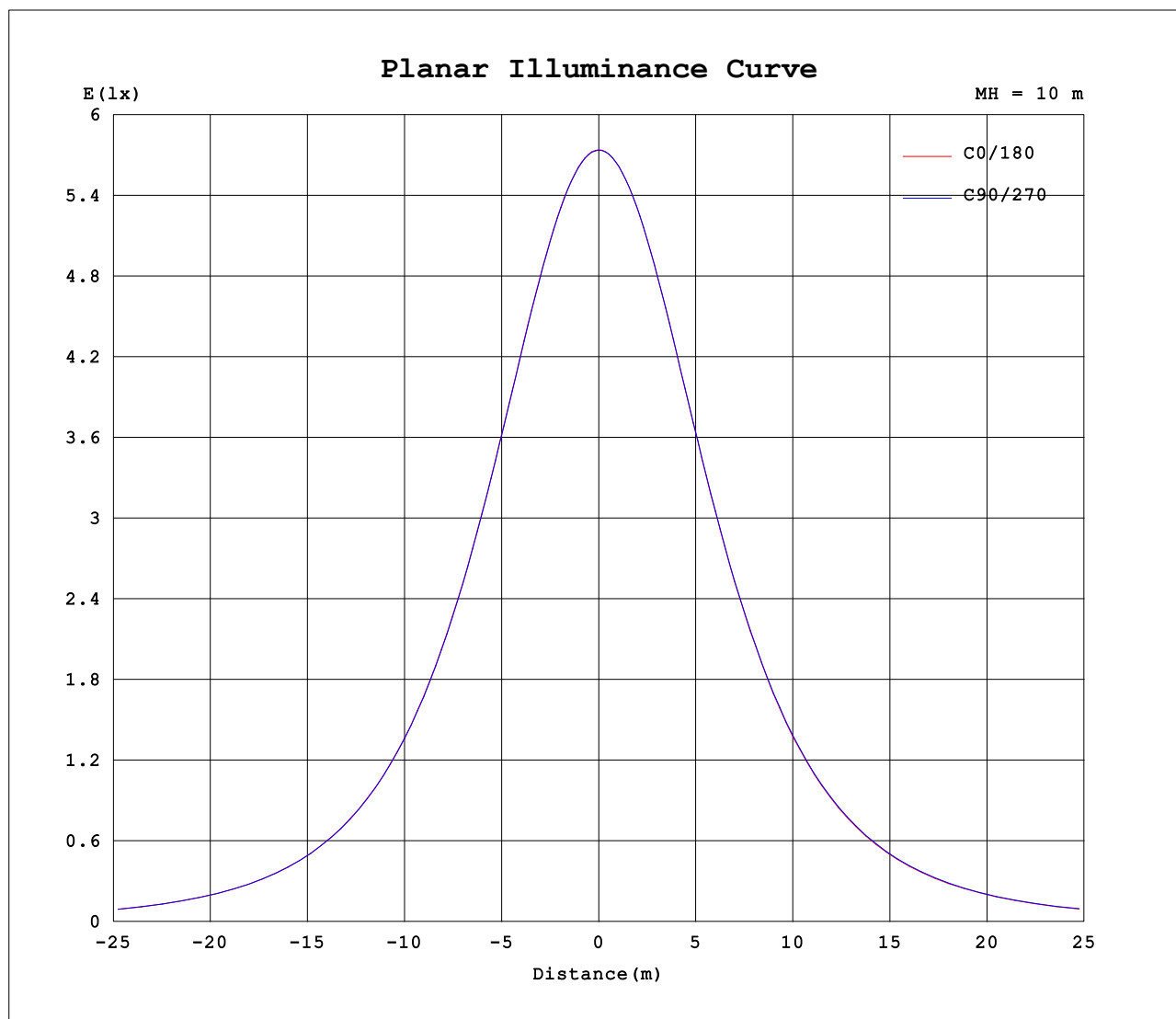
AvgL	cd/m2
L_0~180 (65) av	493
L_0~180 (75) av	425
L_0~180 (85) av	304
L_90~270 (65) av	498
L_90~270 (75) av	443
L_90~270 (85) av	340
L_45 (65) av	495
L_45 (75) av	431
L_45 (85) av	305

Standard: GB/T 29293-2012

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☐ 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

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