

Photometric report for Flanged and Flangeless Trim



Light Output Ratio:	45.3%	
Luminaire Power:	13.63 W	
SHR Nominal:	0.50	Calculated using the TM5
SHR Maximum:	0.60	fine grid method.

C Range: 0 - 360DEG
C Interval: FOR A 15° LENS BEAM ANGLE
Test Speed: HIGH
Temperature: 25.3
Operators: zoe
Test Date: 2025-7-02

Range: 0 - 180DEG
Interval: 1.0DEG
Test System: EVERFINE GO-SPEX500_V1 SYSTEM V2.00.461
Humidity: 65.0%
Test Distance: 3.160m [K=1.0000]
Remarks: LAMP: BXRH-30G10T0-G-83 Ra: 90
LENS: PM-1084 15R
DRIVER: PUP20A-1WMC 600mA
30minutes warm-up

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM

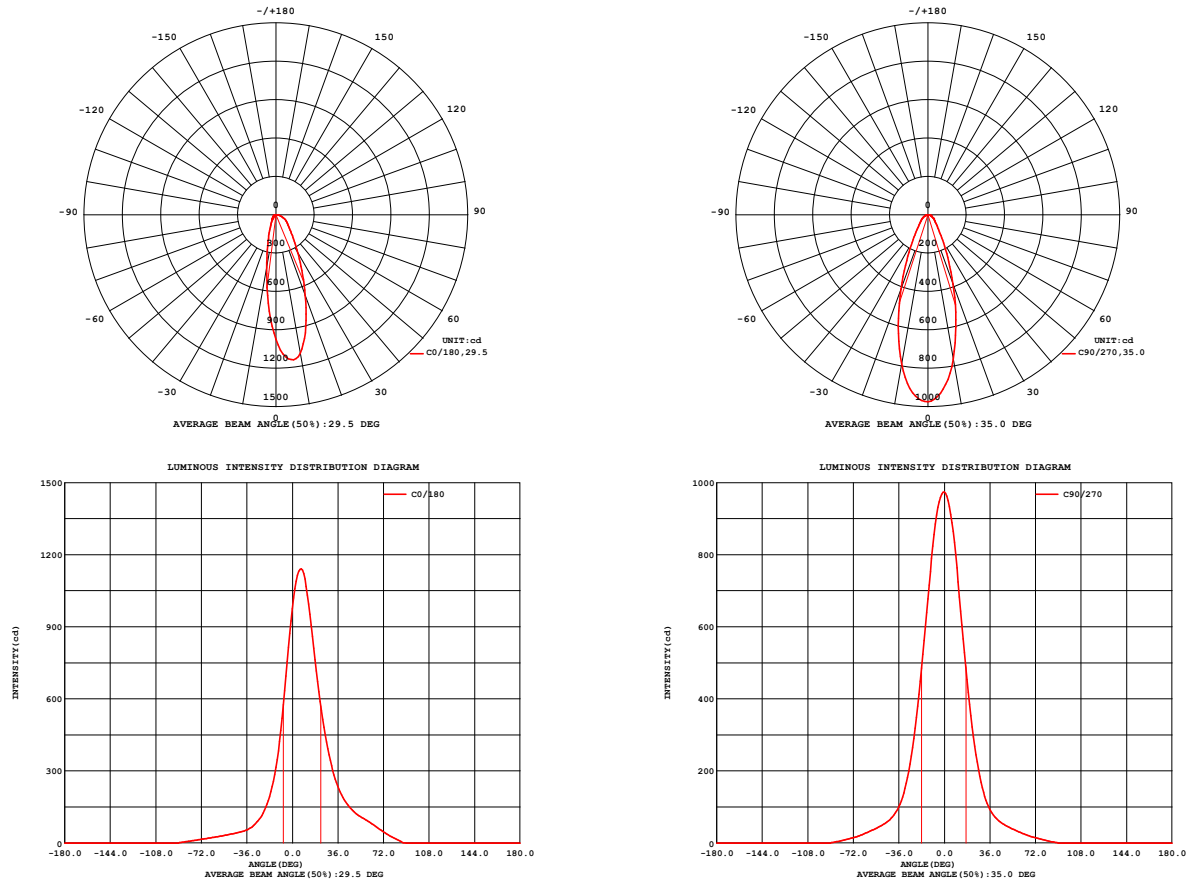


Fig. C0/C180

Fig. C90/C270

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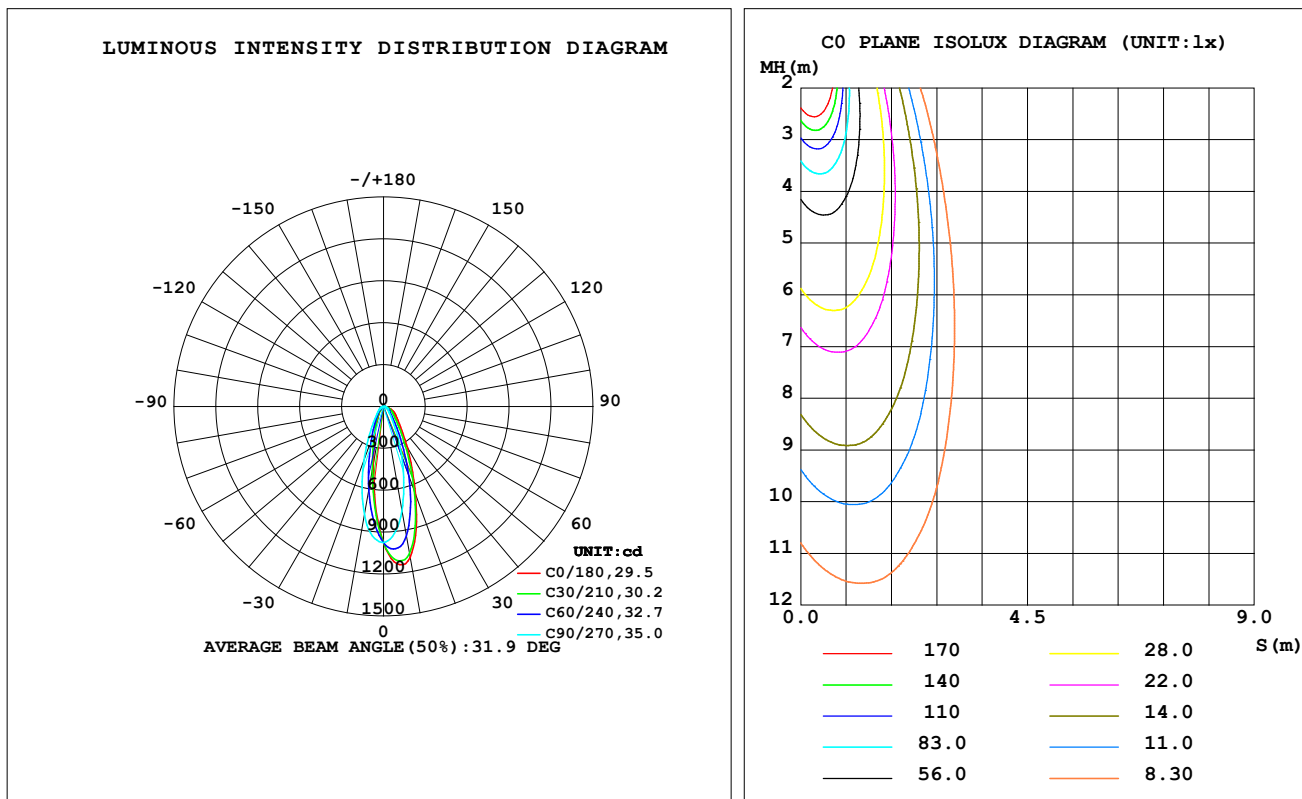
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30minutes warm-up

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.10V I:0.1145A P:13.631W PF:0.9903 Freq:59.98Hz Lamp Flux:1342.44x1 lm		
NAME: CTL-M-1.5S-30K-15-RD-WW	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2507020410
MFR.: MERCURY LIGHTING	SUR.: 0.00113354m2	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 44.61 lm/W
MODEL	Brideglux	I _{max} (cd)	1141	S/MH (C0/180)	0.30	
NOMINAL POWER (W)	13	LOR (%)	45.3	S/MH (C90/270)	0.58	
RATED VOLTAGE (V)	120	TOTAL FLUX (lm)	608.02	☒ UP, DN (C0-180)	0.0, 24.6	
NOMINAL FLUX (lm)	1342.44	CIE CLASS	DIRECT	☒ UP, DN (C180-360)	0.0, 20.7	
LAMPS INSIDE	1	☒ up (%)	0.0	CIBSE SHR NOM	0.50	
TEST VOLTAGE (V)	120	☒ down (%)	45.3	CIBSE SHR MAX	0.60	



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 Interval: 1.0DEG
 Test System: EVERFINE GO-SPEX500_V1 SYSTEM V2.00.461
 Humidity: 65.0%
 Test Distance: 3.160m [K=1.0000]
 Remarks: LAMP: BXRH-30G10T0-G-83 Ra: 90
 LENS: PM-1084 15R
 DRIVER: PUP20A-1WMC 600mA

30minutes warm-up

ZONAL FLUX DIAGRAM
ZONAL FLUX DIAGRAM:

°	C0	C45	C90	C135	C180	C225	C270	C315	°	zone	total	%lum,lamp
10	1098	1006	763.8	513.0	422.5	537.1	789.6	1014	0- 10	82.76	82.76	13.6,6.16
20	672.2	587.2	384.6	205.0	162.2	219.2	412.9	600.1	10- 20	159.5	242.2	39.8,18
30	343.7	259.1	153.6	91.26	75.24	98.24	165.9	270.7	20- 30	125.7	367.9	60.5,27.4
40	190.1	125.7	72.61	52.68	47.29	55.71	76.69	131.5	30- 40	80.46	448.3	73.7,33.4
50	123.7	77.72	45.76	37.36	35.37	38.90	47.57	80.69	40- 50	57.22	505.6	83.1,37.7
60	90.37	54.12	29.51	26.08	25.52	26.73	30.76	56.06	50- 60	45.29	550.9	90.6,41
70	53.53	31.72	16.26	16.68	16.93	16.89	16.53	32.53	60- 70	32.84	583.7	96,43.5
80	22.39	13.42	7.323	8.255	8.633	8.362	7.423	13.87	70- 80	18.70	602.4	99.1,44.9
90	0	0	0	0	0	0	0	0	80- 90	5.625	608.0	100,45.3
100	0	0	0	0	0	0	0	0	90-100	0	608.0	100,45.3
110	0	0	0	0	0	0	0	0	100-110	0	608.0	100,45.3
120	0	0	0	0	0	0	0	0	110-120	0	608.0	100,45.3
130	0	0	0	0	0	0	0	0	120-130	0	608.0	100,45.3
140	0	0	0	0	0	0	0	0	130-140	0	608.0	100,45.3
150	0	0	0	0	0	0	0	0	140-150	0	608.0	100,45.3
160	0	0	0	0	0	0	0	0	150-160	0	608.0	100,45.3
170	0	0	0	0	0	0	0	0	160-170	0	608.0	100,45.3
180	0	0	0	0	0	0	0	0	170-180	0	608.0	100,45.3
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

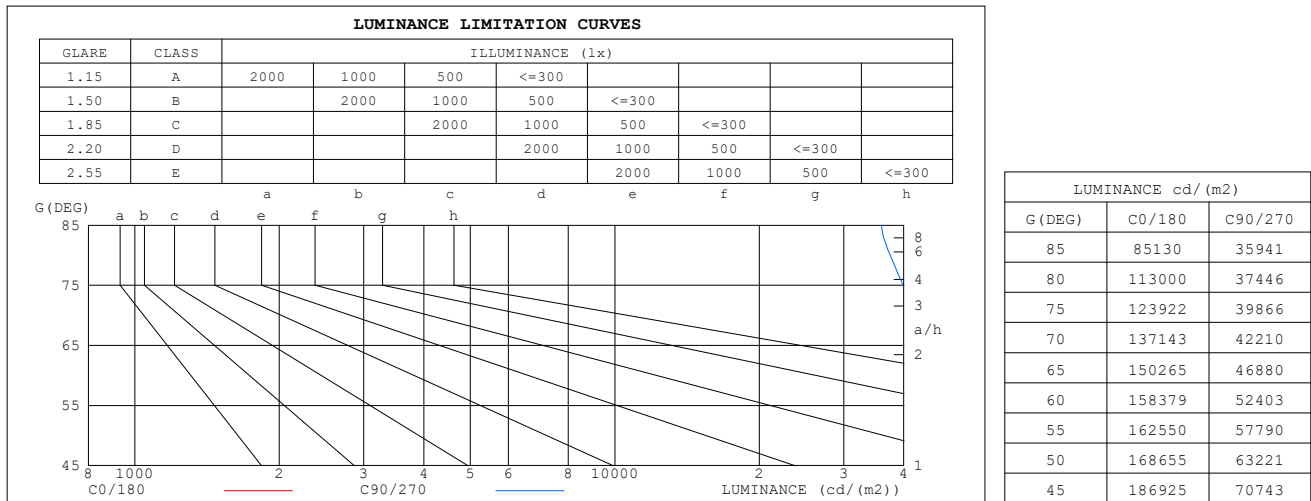
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 Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.461
 Humidity:65.0%
 Test Distance:3.160m [K=1.0000]
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30minutes warm-up

LUMINANCE LIMITATION CURVES

Test: U:120.10V I:0.1145A P:13.631W PF:0.9903 Freq:59.98Hz Lamp Flux: 1342.44x1 lm		
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SPEC.: 3000K	DIM.:	SERIAL No.: 2507020410
MFR.: MERCURY LIGHTING	SUR.: 0.00113354m2	Shielding Angle:



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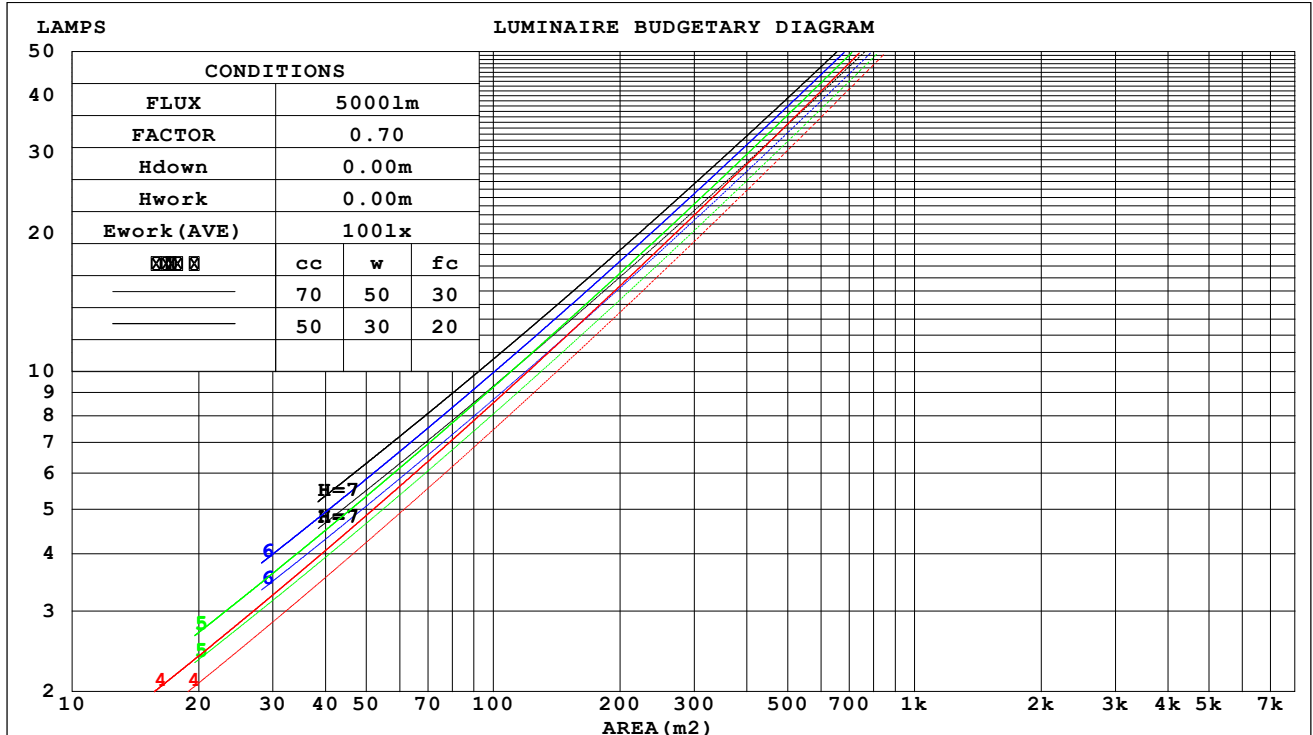
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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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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	.54	.54	.54	.53	.53	.53	.50	.50	.50	.48	.48	.48	.46	.46	.46	.45
1.0	.49	.48	.46	.48	.47	.46	.46	.45	.44	.45	.44	.43	.43	.42	.42	.41
2.0	.45	.43	.41	.44	.42	.40	.42	.41	.39	.41	.40	.38	.40	.39	.38	.37
3.0	.41	.38	.36	.41	.38	.36	.39	.37	.35	.38	.36	.35	.37	.36	.34	.33
4.0	.38	.35	.33	.38	.35	.33	.37	.34	.32	.36	.34	.32	.35	.33	.32	.31
5.0	.35	.32	.30	.35	.32	.30	.34	.32	.30	.33	.31	.29	.33	.31	.29	.28
6.0	.33	.30	.28	.33	.30	.28	.32	.29	.28	.31	.29	.27	.31	.29	.27	.26
7.0	.31	.28	.26	.31	.28	.26	.30	.28	.26	.30	.27	.26	.29	.27	.25	.25
8.0	.29	.26	.24	.29	.26	.24	.29	.26	.24	.28	.26	.24	.28	.25	.24	.23
9.0	.28	.25	.23	.27	.25	.23	.27	.25	.23	.27	.24	.23	.26	.24	.23	.22
10.0	.26	.24	.22	.26	.23	.22	.26	.23	.22	.25	.23	.21	.25	.23	.21	.21



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30minutes warm-up

WEC AND CCEC

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SPEC.: 3000K	DIM.:	SERIAL No.: 2507020410
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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	.101	.058	.018	.098	.056	.018	.092	.053	.017	.087	.050	.016	.082	.048	.015	
2.0	.095	.052	.016	.093	.051	.016	.088	.049	.015	.083	.047	.015	.079	.045	.014	
3.0	.089	.047	.014	.087	.046	.014	.082	.045	.014	.078	.043	.013	.075	.041	.013	
4.0	.083	.043	.013	.081	.042	.013	.077	.041	.012	.074	.040	.012	.070	.038	.012	
5.0	.077	.039	.011	.076	.039	.011	.072	.038	.011	.069	.037	.011	.067	.036	.011	
6.0	.073	.036	.010	.071	.036	.010	.068	.035	.010	.065	.034	.010	.063	.033	.010	
7.0	.068	.034	.010	.067	.033	.009	.064	.033	.009	.062	.032	.009	.060	.031	.009	
8.0	.064	.031	.009	.063	.031	.009	.061	.030	.009	.059	.030	.009	.057	.029	.008	
9.0	.061	.029	.008	.060	.029	.008	.058	.029	.008	.056	.028	.008	.054	.027	.008	
10.0	.058	.028	.008	.057	.027	.008	.055	.027	.008	.053	.026	.008	.052	.026	.007	

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	.086	.086	.086	.074	.074	.074	.050	.050	.050	.029	.029	.029	.009	.009	.009	
1.0	.079	.071	.064	.068	.061	.055	.046	.042	.038	.027	.024	.022	.009	.008	.007	
2.0	.073	.060	.049	.063	.052	.042	.043	.036	.029	.025	.021	.017	.008	.007	.006	
3.0	.068	.052	.038	.058	.044	.033	.040	.031	.023	.023	.018	.014	.007	.006	.005	
4.0	.064	.045	.031	.055	.039	.027	.038	.027	.019	.022	.016	.011	.007	.005	.004	
5.0	.060	.040	.025	.051	.035	.022	.035	.024	.016	.020	.014	.009	.007	.005	.003	
6.0	.056	.036	.021	.048	.031	.018	.033	.022	.013	.019	.013	.008	.006	.004	.003	
7.0	.053	.032	.018	.046	.028	.016	.032	.020	.011	.018	.012	.007	.006	.004	.002	
8.0	.050	.030	.016	.043	.026	.014	.030	.018	.010	.017	.011	.006	.006	.003	.002	
9.0	.048	.027	.014	.041	.024	.012	.028	.017	.008	.017	.010	.005	.005	.003	.002	
10.0	.045	.025	.012	.039	.022	.010	.027	.015	.007	.016	.009	.004	.005	.003	.001	

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30minutes warm-up

UGR(Unified Glare Rating) Table

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SPEC.: 3000K					DIM.:			SERIAL No.: 2507020410			
MFR.: MERCURY LIGHTING					SUR.: 0.00113354m2			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	2H	28.8	29.9	29.0	30.1	30.2	24.1	25.2	24.4	25.4	25.6
	3H	30.3	31.3	30.6	31.5	31.7	24.9	26.0	25.2	26.2	26.4
	4H	30.9	31.9	31.2	32.1	32.3	25.3	26.2	25.6	26.5	26.7
	6H	31.3	32.3	31.6	32.5	32.8	25.5	26.4	25.8	26.7	27.0
	8H	31.5	32.4	31.8	32.6	32.9	25.6	26.5	25.9	26.8	27.0
	12H	31.6	32.4	31.9	32.7	33.0	25.7	26.5	26.0	26.8	27.1
4H	2H	29.0	29.9	29.3	30.2	30.4	25.3	26.2	25.6	26.5	26.7
	3H	30.7	31.5	31.0	31.8	32.1	26.2	27.1	26.5	27.3	27.6
	4H	31.4	32.2	31.8	32.5	32.8	26.6	27.4	27.0	27.7	28.0
	6H	32.0	32.7	32.4	33.1	33.4	26.9	27.6	27.3	27.9	28.3
	8H	32.2	32.9	32.6	33.2	33.6	27.0	27.7	27.4	28.0	28.4
	12H	32.4	33.0	32.8	33.3	33.7	27.1	27.7	27.5	28.1	28.5
8H	4H	31.5	32.1	31.9	32.5	32.8	27.2	27.8	27.6	28.2	28.6
	6H	32.2	32.7	32.6	33.1	33.6	27.6	28.1	28.0	28.5	29.0
	8H	32.5	33.0	33.0	33.4	33.8	27.8	28.2	28.2	28.7	29.1
	12H	32.7	33.1	33.2	33.6	34.0	27.9	28.3	28.4	28.7	29.2
12H	4H	31.4	32.0	31.9	32.4	32.8	27.3	27.9	27.7	28.3	28.7
	6H	32.2	32.7	32.6	33.1	33.5	27.8	28.2	28.2	28.7	29.1
	8H	32.5	32.9	33.0	33.4	33.8	28.0	28.4	28.4	28.8	29.3
Variations with the observer position at spacings(CIE Pub.117):											
S = 1.0H	+ 0.2 / - 0.2					+ 0.4 / - 0.5					
1.5H	+ 0.4 / - 0.3					+ 0.2 / - 0.4					
2.0H	+ 0.5 / - 0.8					+ 0.4 / - 0.7					

CIE Pub.117, 1342 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 1.0)
 Area: 0.00113354 m2

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UTILIZATION FACTORS TABLE

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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) $k(RI) \times RCR = 5$									
$k = 0.60$	34	30	28	34	30	28	33	30	28	26
0.80	38	34	32	38	34	32	37	34	32	29
1.00	41	37	35	40	37	35	39	37	34	32
1.25	43	40	37	43	39	37	41	39	37	34
1.50	45	42	39	44	41	39	43	41	39	36
2.00	47	44	42	46	43	42	45	43	41	38
2.50	48	45	43	47	45	43	45	44	42	39
3.00	49	47	45	48	46	44	46	45	43	40
4.00	50	48	47	49	48	46	47	46	45	42
5.00	51	49	48	50	49	47	48	47	46	42
ROOM INDEX	UF (total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

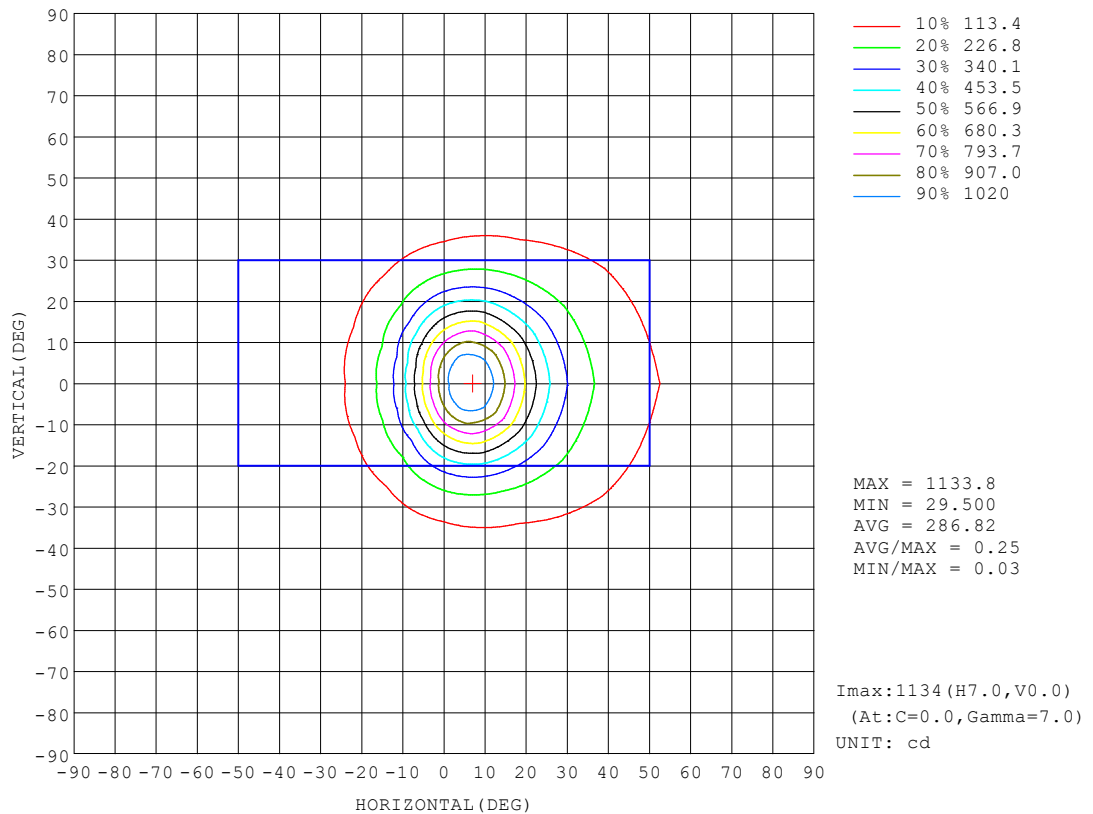
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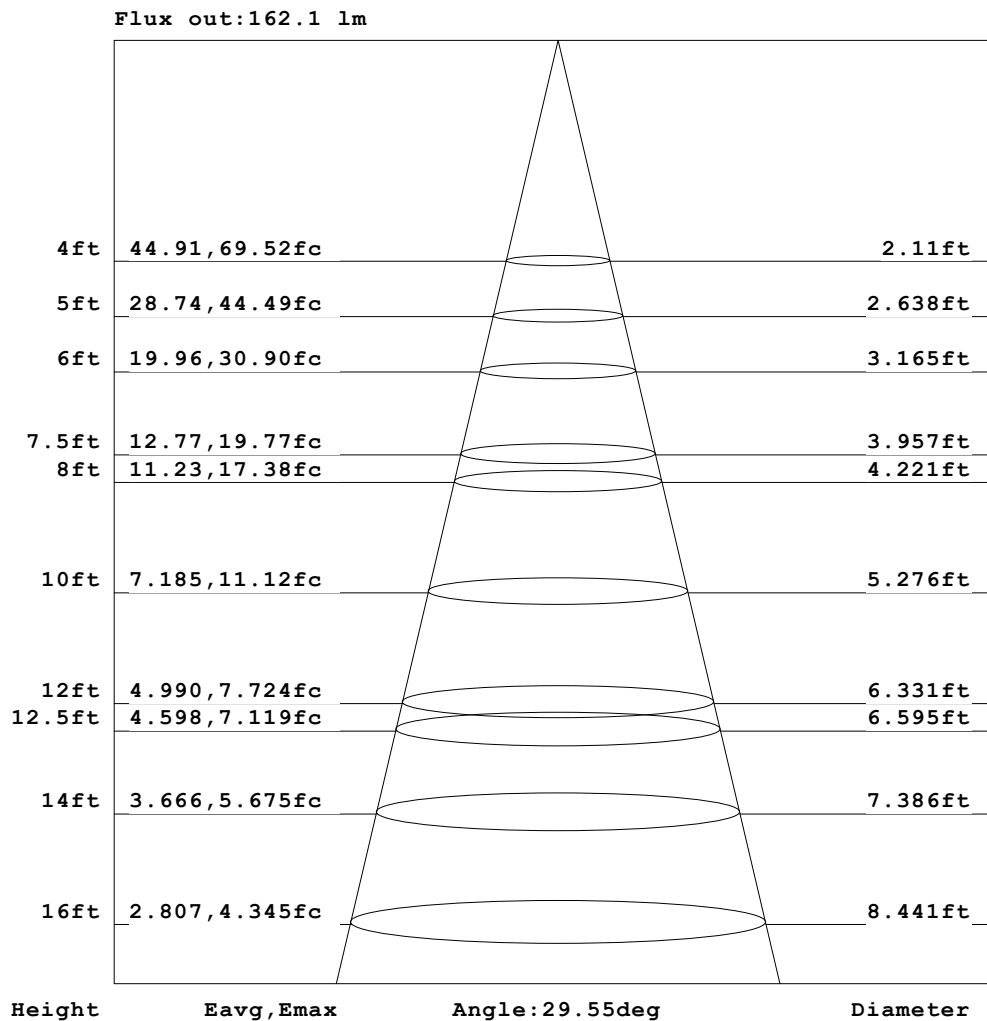
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 Remarks: LAMP:BXRH-30G10T0-G-83 Ra:90
 LENS:PM-1084 15R
 DRIVER:PUP20A-1WMC 600mA

30minutes warm-up

AAI Figure

Test:U:120.10V I:0.1145A P:13.631W PF:0.9903 Freq:59.98Hz Lamp Flux:1342.44x1 lm		
NAME: CTL-M-1.5S-30K-15-RD-WW	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2507020410
MFR.: MERCURY LIGHTING	SUR.: 0.00113354m2	Shielding Angle:



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

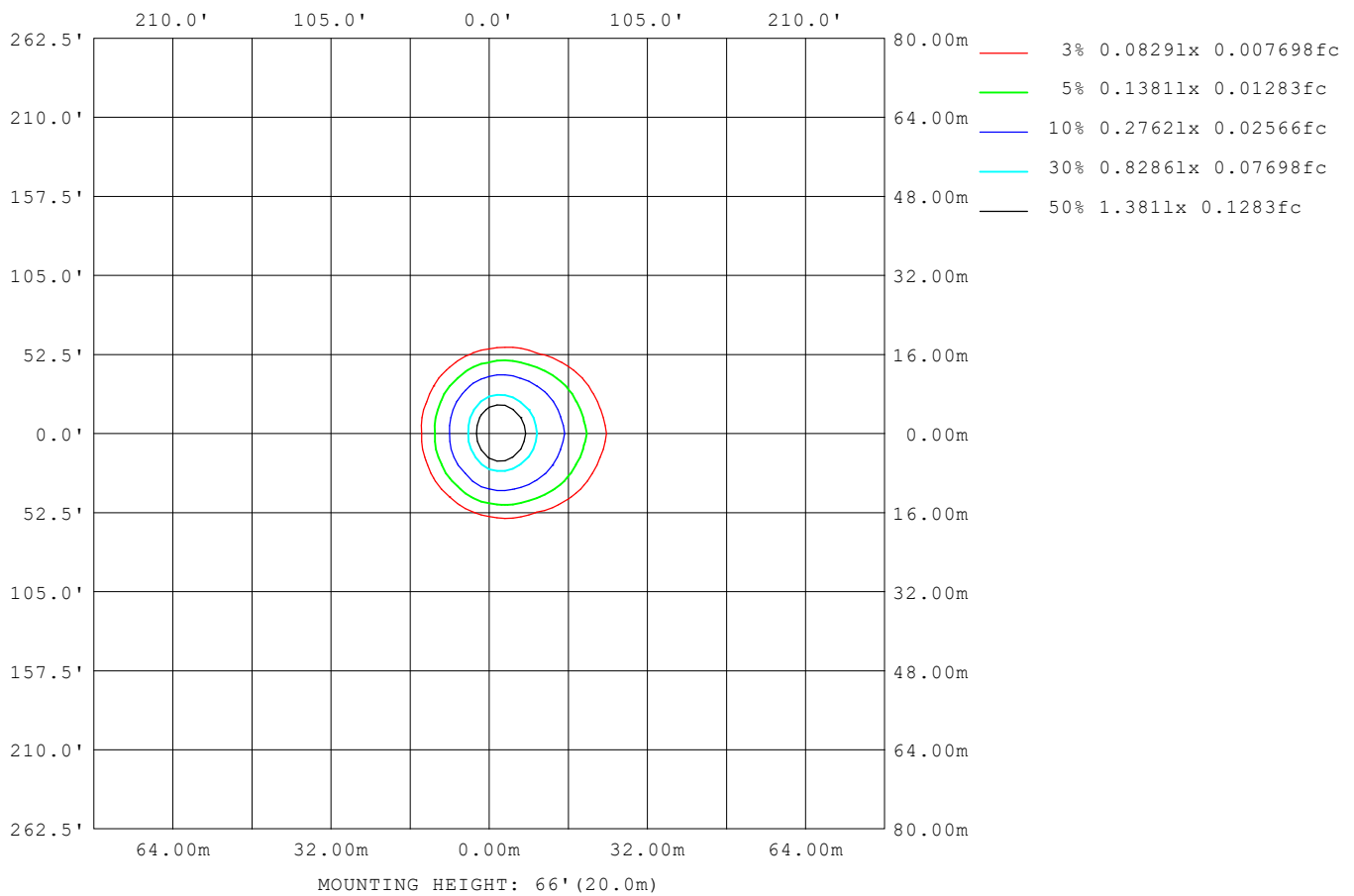
C Range: 0 - 360DEG
 C Interval: FOR A 15° LENS BEAM ANGLE
 Test Speed: HIGH
 Temperature: 25.3
 Operators: zoe
 Test Date: 2025-7-02

Range: 0 - 180DEG
 Interval: 1.0DEG
 Test System: EVERFINE GO-SPEX500_V1 SYSTEM V2.00.461
 Humidity: 65.0%
 Test Distance: 3.160m [K=1.0000]
 Remarks: LAMP: BXRH-30G10T0-G-83 Ra: 90
 LENS: PM-1084 15R
 DRIVER: PUP20A-1WMC 600mA

30minutes warm-up

ISOLUX DIAGRAM

Test: U:120.10V I:0.1145A P:13.631W PF:0.9903 Freq:59.98Hz Lamp Flux: 1342.44x1 lm		
NAME: CTL-M-1.5S-30K-15-RD-WW	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2507020410
MFR.: MERCURY LIGHTING	SUR.: 0.00113354m2	Shielding Angle:



C Range: 0 - 360DEG
C Interval: FOR A 15° LENS BEAM ANGLE
Test Speed: HIGH
Temperature: 25.3
Operators: zoe
Test Date: 2025-7-02

Range: 0 - 180DEG
Interval: 1.0DEG
Test System: EVERFINE GO-SPEX500_V1 SYSTEM V2.00.461
Humidity: 65.0%
Test Distance: 3.160m [K=1.0000]
Remarks: LAMP: BXRH-30G10T0-G-83 Ra:90
 LENS: PM-1084 15R
 DRIVER: PUP20A-1WMC 600mA

30minutes warm-up

LED Avg.L Report

Test:U:120.10V I:0.1145A P:13.631W PF:0.9903 Freq:59.98Hz Lamp Flux:1342.44x1 lm		
NAME: CTL-M-1.5S-30K-15-RD-WW	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2507020410
MFR.: MERCURY LIGHTING	SUR.: 0.00113354m2	Shielding Angle:

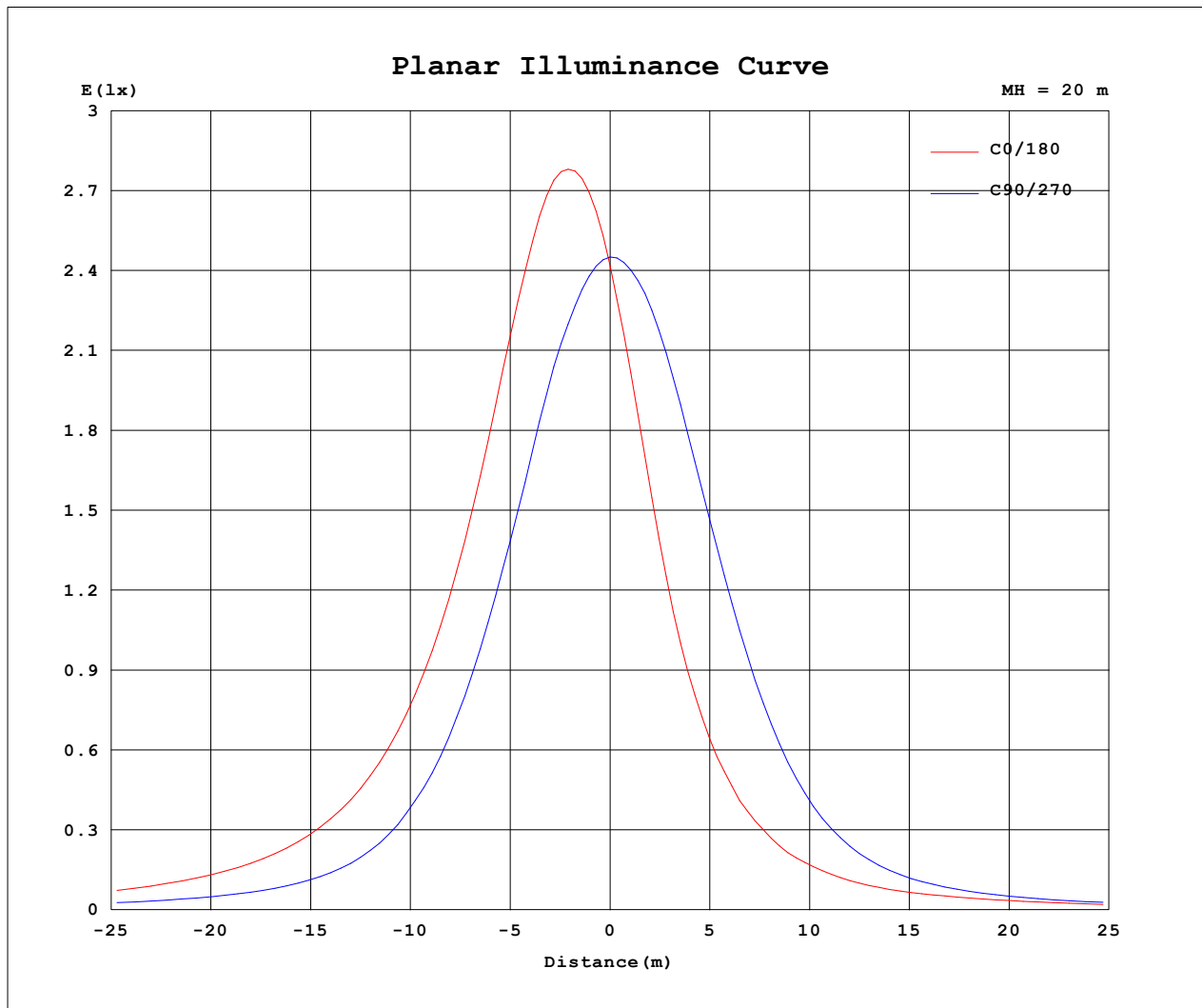
AvgL	cd/m2
L_0~180 (65) av	97786
L_0~180 (75) av	84074
L_0~180 (85) av	66659
L_90~270 (65) av	47281
L_90~270 (75) av	39718
L_90~270 (85) av	36308
L_45 (65) av	66894
L_45 (75) av	58698
L_45 (85) av	49831

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: FOR A 15° LENS BEAM ANGLE
 Test Speed: HIGH
 Temperature:25.3
 Operators:zoe
 Test Date:2025-7-02

Range: 0 - 180DEG
 Interval: 1.0DEG
 Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.461
 Humidity:65.0%
 Test Distance:3.160m [K=1.0000]
 Remarks: LAMP:BXRH-30G10T0-G-83 Ra:90
 LENS:PM-1084 15R
 DRIVER:PUP20A-1WMC 600mA
 30minutes warm-up

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: FOR A 15° LENS BEAM ANGLE
Test Speed: HIGH
Temperature: 25.3
Operators: zoe
Test Date: 2025-7-02

Range: 0 - 180DEG
Interval: 1.0DEG
Test System: EVERFINE GO-SPEX500_V1 SYSTEM V2.00.461
Humidity: 65.0%
Test Distance: 3.160m [K=1.0000]
Remarks: LAMP: BXRH-30G10T0-G-83 Ra: 90
LENS: PM-1084 15R
DRIVER: PUP20A-1WMC 600mA

30minutes warm-up

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.10V I:0.1145A P:13.631W PF:0.9903 Freq:59.98Hz Lamp Flux:1342.44x1 lm		
NAME: CTL-M-1.5S-30K-15-RD-WW	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2507020410
MFR.: MERCURY LIGHTING	SUR.: 0.00113354m2	Shielding Angle:

Table--1

UNIT: cd

C (DEG) (DEG)	0	30	60	90	120	150	180	210	240	270	300	330						
0	974	974	974	974	974	974	974	974	974	974	974	974						
5	1130	1106	1021	912	799	721	694	727	821	931	1039	1106						
10	1098	1070	943	764	571	455	422	465	608	790	964	1065						
15	907	883	751	566	370	282	257	289	408	600	779	876						
20	672	645	530	385	235	175	162	180	258	413	557	644						
25	481	443	343	245	151	115	106	120	167	264	366	447						
30	344	301	217	154	101	81.3	75.2	84.7	112	166	234	308						
35	251	212	142	101	73.9	60.1	56.8	62.9	79.4	108	153	216						
40	190	154	98.0	72.6	57.0	48.4	47.3	50.4	61.0	76.7	105	158						
45	151	119	73.2	56.3	46.5	41.4	40.9	42.7	49.2	58.7	77.8	122						
50	124	97.5	58.2	45.8	38.9	35.8	35.4	36.8	41.0	47.6	62.1	99.4						
55	106	82.4	48.0	37.3	32.7	30.5	30.2	31.3	34.1	38.9	51.4	83.8						
60	90.4	69.6	38.8	29.5	26.7	25.4	25.5	25.7	27.7	30.8	41.7	70.4						
65	72.5	55.7	29.6	22.3	21.3	21.1	21.2	21.3	21.9	23.0	32.0	56.0						
70	53.5	42.2	21.3	16.3	16.6	16.7	16.9	16.9	16.9	16.5	23.3	41.8						
75	36.6	29.6	14.5	11.6	12.3	12.5	12.7	12.6	12.4	11.7	15.8	29.0						
80	22.4	18.2	8.73	7.32	8.08	8.43	8.63	8.51	8.22	7.42	9.73	18.0						
85	8.47	6.97	3.68	3.53	4.15	4.53	4.70	4.58	4.31	3.65	4.32	7.00						
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
105	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
110	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
115	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
120	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
125	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
130	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
135	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
140	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
145	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
150	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
155	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
160	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
165	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
170	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
175	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
180	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						

C Range: 0 - 360DEG

C Interval: FOR A 15° LENS BEAM ANGLE

Test Speed: HIGH

Temperature:25.3

Operators:zoe

Test Date:2025-7-02

Range: 0 - 180DEG

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