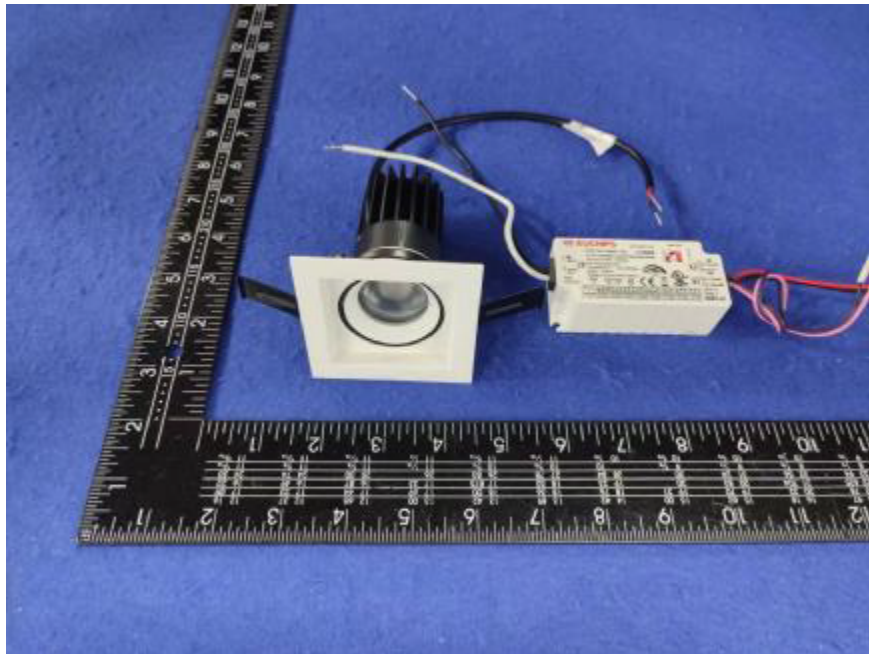


Photometric Report for each Light Engine used in  
double and triple configuration  
for Flanged and Flangeless Trim



Light Output Ratio:	61.0%	
Luminaire Power:	11.28 W	
SHR Nominal:	0.50	Calculated using the TM5
SHR Maximum:	0.70	fine grid method.

C Range: 0 - 360DEG  
C Interval: For a lens beam angle of 36°  
Test Speed: HIGH  
Temperature: 77.54 °F  
Operators: zoe  
Test Date: 2023-12-28

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System: EVERFINE GO-SPEX500\_V1 SYSTEM V2.00.461  
Humidity: 65.0%  
Test Distance: 124.409" [K=1.0000]  
Remarks: LAMP: BXRV-DR-1830G-100Z-A-23 Ra: 90  
LENS: PM-1103B 36R+DIFFUSER  
DRIVER: PUP10A-1WMC-700 500mA  
30minutes warm-up

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM

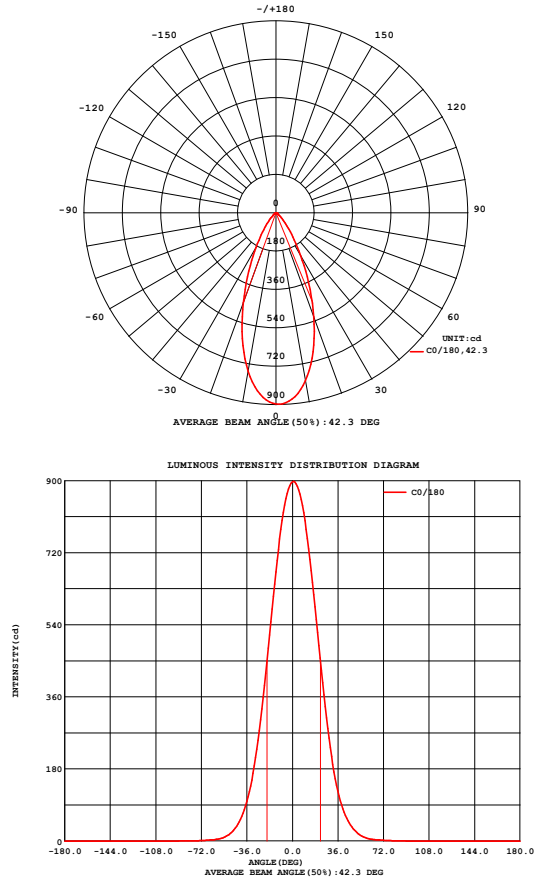


Fig. C0/C180

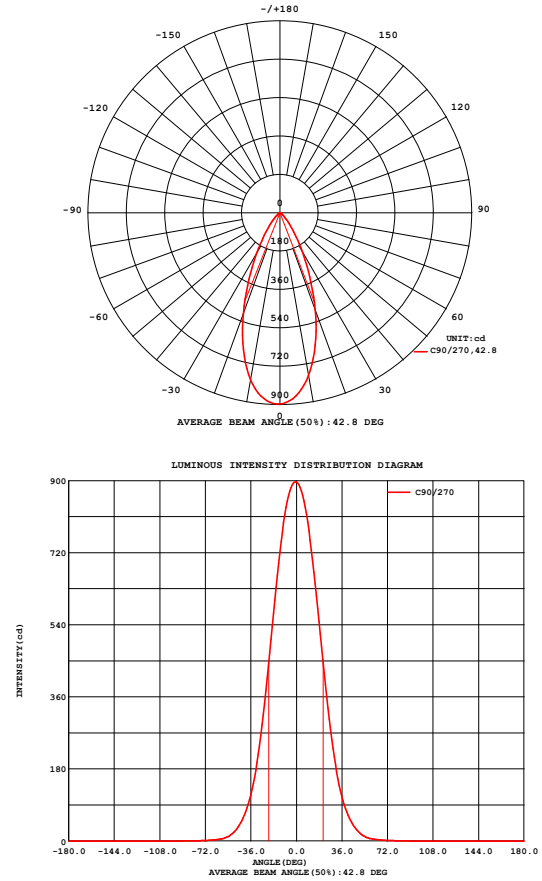


Fig. C90/C270

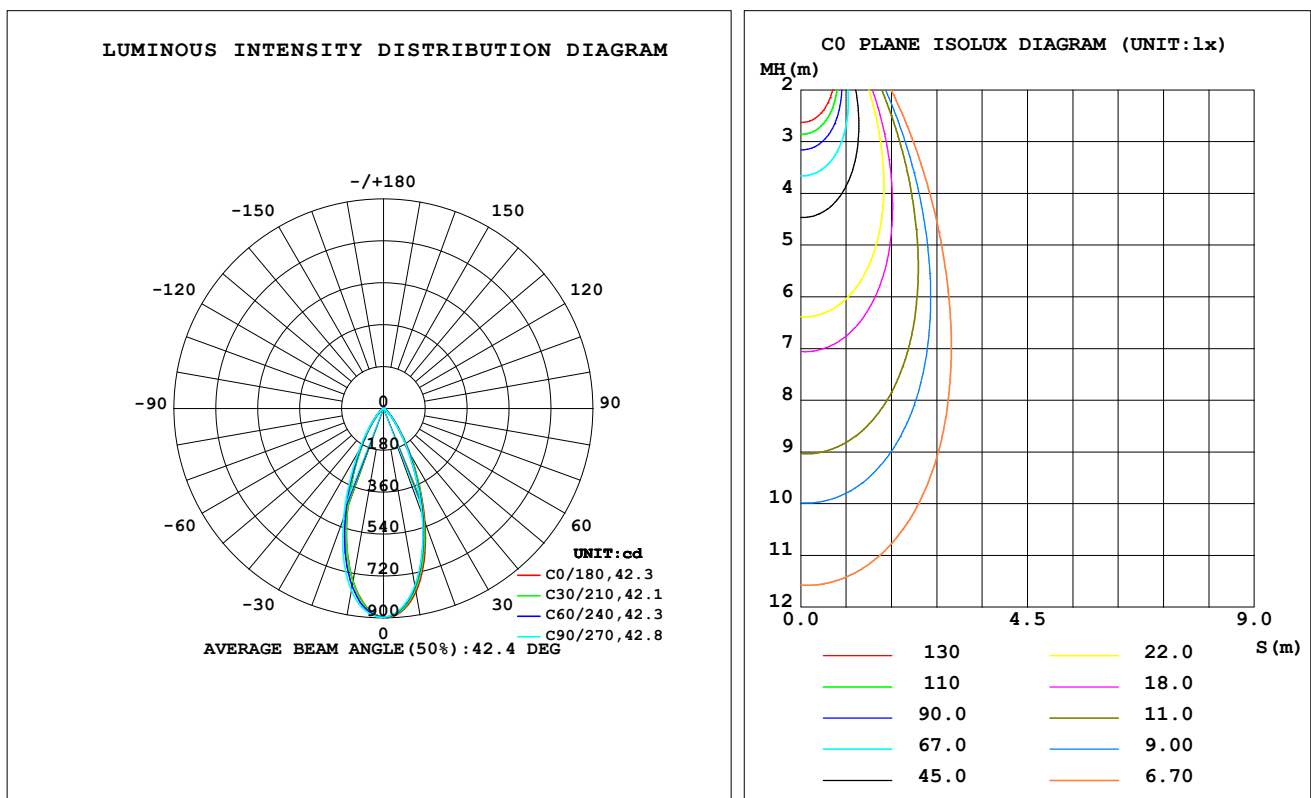
C Range: 0 - 360DEG  
C Interval: For a lens beam angle of 36°  
Test Speed: HIGH  
Temperature: 77.54 °F  
Operators: zoe  
Test Date: 2023-12-28

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System: EVERFINE GO-SPEX500\_V1 SYSTEM V2.00.461  
Humidity: 65.0%  
Test Distance: 124.409" [K=1.0000]  
Remarks: LAMP: BXR-V-DR-1830G-100Z-A-23 Ra: 90  
LENS: PM-1103B 36R+DIFFUSER  
DRIVER: PUP10A-1WMC-700 500mA  
30minutes warm-up

## LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.28V I:0.0949A P:11.285W PF:0.9873 Freq:59.98Hz Lamp Flux:889.25x1 lm		
NAME: CTL-MM-1.5-DM-36-SQ-AD-OPS	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2312281384
MFR.: MERCURY LIGHTING	SUR.: 0.002601m2	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 48.05 lm/W			
MODEL	Bridgelux	I <sub>max</sub> (cd)	897.9	S/MH (C0/180)	0.65
NOMINAL POWER (W)	11	LOR (%)	61.0	S/MH (C90/270)	0.70
RATED VOLTAGE (V)	120	TOTAL FLUX (lm)	542.22	η UP, DN (C0-180)	0.0, 30.6
NOMINAL FLUX (lm)	889.25	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 30.4
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	0.50
TEST VOLTAGE (V)	120	η down (%)	61.0	CIBSE SHR MAX	0.70



C Range: 0 - 360DEG

C Interval: For a lens beam angle of 36°

Test Speed: HIGH

Temperature: 77.54 °F

Operators: zoe

Test Date: 2023-12-28

γ Range: 0 - 180DEG

γ Interval: 1.0DEG

Test System: EVERFINE GO-SPEX500\_V1 SYSTEM V2.00.461

Humidity: 65.0%

Test Distance: 124.409" [K=1.0000]

Remarks: LAMP: BXR-V-DR-1830G-100Z-A-23 Ra: 90

LENS: PM-1103B 36R+DIFFUSER

DRIVER: PUP10A-1WMC-700 500mA

30minutes warm-up

## ZONAL FLUX DIAGRAM

### ZONAL FLUX DIAGRAM:

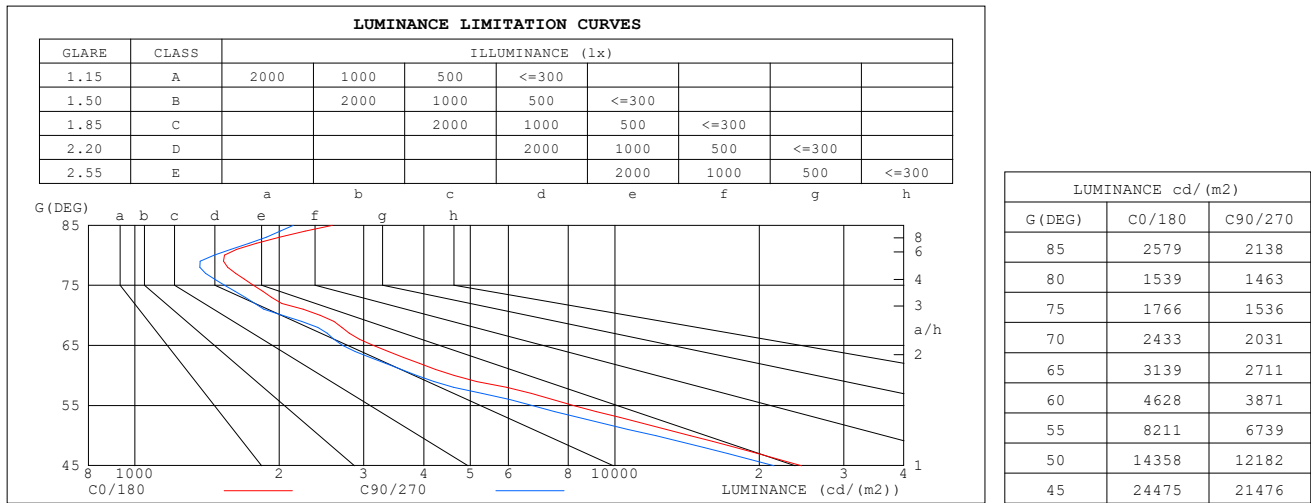
$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	$\Phi$ zone	$\Phi$ total	%lum,lamp
10	799.5	783.5	774.6	765.4	754.1	766.1	794.8	808.1	0- 10	80.01	80.01	14.8,9
20	520.3	500.6	484.7	467.4	449.8	465.0	502.8	526.3	10- 20	178.0	258.0	47.6,29
30	233.4	223.5	210.2	197.6	187.7	196.6	216.2	233.4	20- 30	154.1	412.0	76,46.3
40	80.29	76.80	71.97	67.59	61.35	66.51	73.35	81.16	30- 40	81.07	493.1	90.9,55.5
50	23.99	25.24	20.37	21.39	15.97	20.86	19.57	26.78	40- 50	32.81	525.9	97,59.1
60	6.017	7.529	5.034	5.795	4.030	5.512	4.900	7.464	50- 60	11.10	537.0	99,60.4
70	2.163	2.489	1.807	1.907	1.262	1.658	1.477	2.310	60- 70	3.541	540.6	99.7,60.8
80	0.6946	0.8554	0.6607	0.6170	0.4935	0.5581	0.5234	0.7330	70- 80	1.209	541.8	99.9,60.9
90	0	0	0	0	0	0	0	0	80- 90	0.4442	542.2	100,61
100	0	0	0	0	0	0	0	0	90-100	0	542.2	100,61
110	0	0	0	0	0	0	0	0	100-110	0	542.2	100,61
120	0	0	0	0	0	0	0	0	110-120	0	542.2	100,61
130	0	0	0	0	0	0	0	0	120-130	0	542.2	100,61
140	0	0	0	0	0	0	0	0	130-140	0	542.2	100,61
150	0	0	0	0	0	0	0	0	140-150	0	542.2	100,61
160	0	0	0	0	0	0	0	0	150-160	0	542.2	100,61
170	0	0	0	0	0	0	0	0	160-170	0	542.2	100,61
180	0	0	0	0	0	0	0	0	170-180	0	542.2	100,61
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG  
 C Interval:For a lens beam angle of 36°  
 Test Speed: HIGH  
 Temperature:77.54°F  
 Operators:zoe  
 Test Date:2023-12-28

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-SPEX500\_V1 SYSTEM V2.00.461  
 Humidity:65.0%  
 Test Distance:124.409"[K=1.0000]  
 Remarks: LAMP:BXRV-DR-1830G-100Z-A-23 Ra:90  
 LENS:PM-1103B 36R+DIFFUSER  
 DRIVER:PUP10A-1WMC-700 500mA  
 30minutes warm-up

## LUMINANCE LIMITATION CURVES

Test:U:120.28V I:0.0949A P:11.285W PF:0.9873 Freq:59.98Hz Lamp Flux:889.25x1 lm		
NAME: CTL-MM-1.5-DM-36-SQ-AD-OPS	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2312281384
MFR.: MERCURY LIGHTING	SUR.: 0.002601m2	Shielding Angle:



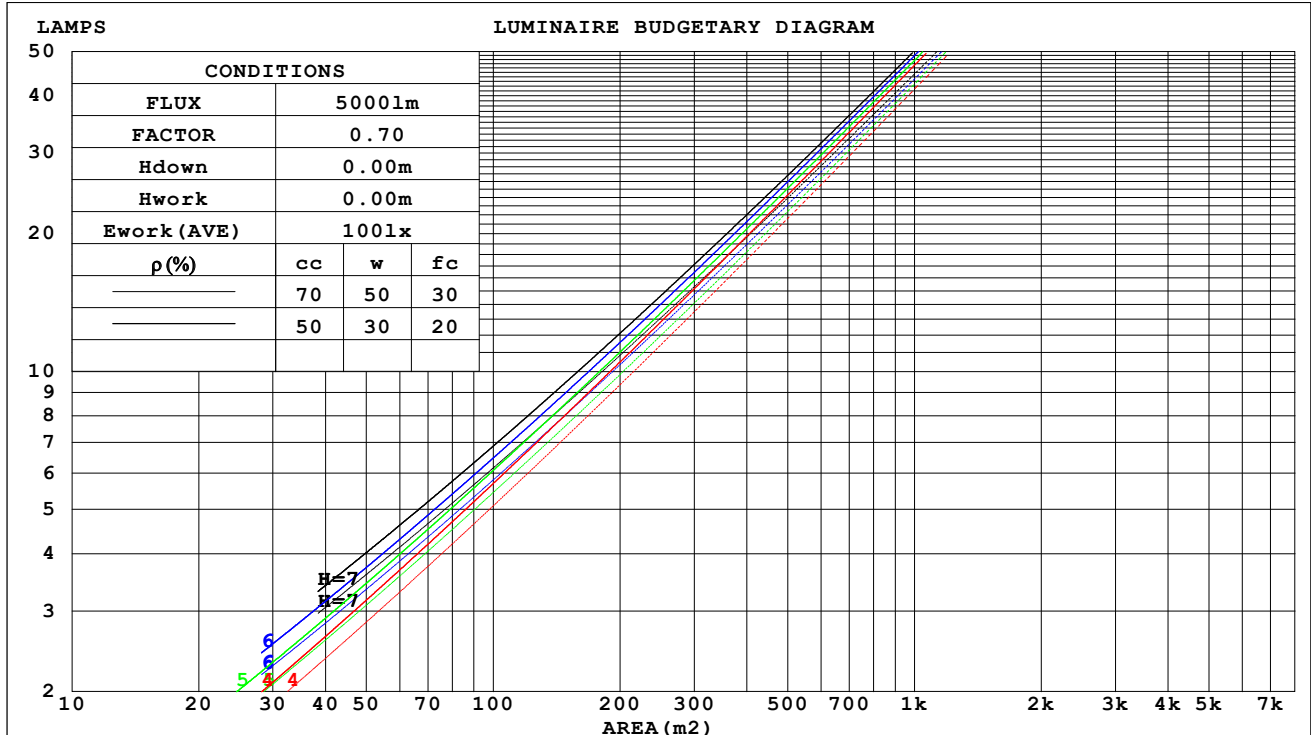
C Range: 0 - 360DEG  
 C Interval: For a lens beam angle of 36°  
 Test Speed: HIGH  
 Temperature: 77.54°F  
 Operators: zoe  
 Test Date: 2023-12-28

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-SPEX500\_V1 SYSTEM V2.00.461  
 Humidity: 65.0%  
 Test Distance: 124.409" [K=1.0000]  
 Remarks: LAMP: BXRV-DR-1830G-100Z-A-23 Ra: 90  
 LENS: PM-1103B 36R+DIFFUSER  
 DRIVER: PUP10A-1WMC-700 500mA  
 30minutes warm-up

## CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.28V I:0.0949A P:11.285W PF:0.9873 Freq:59.98Hz Lamp Flux:889.25x1 lm		
NAME: CTL-MM-1.5-DM-36-SQ-AD-OPS	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2312281384
MFR.: MERCURY LIGHTING	SUR.: 0.002601m2	Shielding Angle:

pcc	80%			70%			50%			30%			10%			0
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio															



C Range: 0 - 360DEG

C Interval: For a lens beam angle of 36°

Test Speed: HIGH

Temperature: 77.54 °F

Operators: zoe

Test Date: 2023-12-28

γ Range: 0 - 180DEG

γ Interval: 1.0DEG

Test System: EVERFINE GO-SPEX500\_V1 SYSTEM V2.00.461

Humidity: 65.0%

Test Distance: 124.409" [K=1.0000]

Remarks: LAMP: BXR-V-DR-1830G-100Z-A-23 Ra: 90

LENS: PM-1103B 36R+DIFFUSER

DRIVER: PUP10A-1WMC-700 500mA

30minutes warm-up

**WEC AND CCEC**

Test:U:120.28V I:0.0949A P:11.285W PF:0.9873 Freq:59.98Hz Lamp Flux:889.25x1 lm		
NAME: CTL-MM-1.5-DM-36-SQ-AD-OPS	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2312281384
MFR.: MERCURY LIGHTING	SUR.: 0.002601m2	Shielding Angle:

pcc	80%			70%			50%			30%			10%			0
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.106	.060	.019	.102	.058	.018	.094	.054	.017	.087	.050	.016	.080	.047	.015	
2.0	.101	.055	.017	.097	.054	.017	.091	.051	.016	.085	.048	.015	.080	.045	.014	
3.0	.096	.051	.015	.093	.050	.015	.087	.047	.014	.082	.045	.014	.078	.043	.013	
4.0	.091	.047	.014	.088	.046	.014	.084	.044	.013	.079	.043	.013	.075	.041	.012	
5.0	.086	.044	.013	.084	.043	.013	.080	.042	.012	.076	.040	.012	.073	.039	.012	
6.0	.082	.041	.012	.080	.041	.012	.077	.039	.011	.073	.038	.011	.070	.037	.011	
7.0	.078	.039	.011	.077	.038	.011	.074	.037	.011	.071	.036	.011	.068	.035	.010	
8.0	.075	.037	.010	.073	.036	.010	.071	.035	.010	.068	.034	.010	.066	.034	.010	
9.0	.072	.035	.010	.070	.034	.010	.068	.034	.010	.066	.033	.009	.063	.032	.009	
10.0	.069	.033	.009	.068	.033	.009	.065	.032	.009	.063	.031	.009	.061	.031	.009	

pcc	80%			70%			50%			30%			10%			0
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.116	.116	.116	.099	.099	.099	.068	.068	.068	.039	.039	.039	.012	.012	.012	
1.0	.104	.096	.089	.089	.082	.076	.061	.057	.053	.035	.033	.031	.011	.011	.010	
2.0	.095	.081	.069	.081	.070	.060	.056	.048	.042	.032	.028	.024	.010	.009	.008	
3.0	.087	.069	.055	.075	.060	.048	.051	.041	.033	.030	.024	.020	.010	.008	.006	
4.0	.081	.060	.045	.069	.052	.039	.048	.036	.027	.028	.021	.016	.009	.007	.005	
5.0	.075	.053	.037	.065	.046	.032	.044	.032	.023	.026	.019	.013	.008	.006	.004	
6.0	.070	.047	.031	.061	.041	.027	.042	.029	.019	.024	.017	.011	.008	.006	.004	
7.0	.066	.043	.026	.057	.037	.023	.039	.026	.016	.023	.015	.010	.007	.005	.003	
8.0	.063	.039	.022	.054	.034	.020	.037	.024	.014	.022	.014	.008	.007	.005	.003	
9.0	.060	.036	.019	.051	.031	.017	.036	.022	.012	.021	.013	.007	.007	.004	.002	
10.0	.057	.033	.017	.049	.029	.015	.034	.020	.011	.020	.012	.006	.006	.004	.002	

C Range: 0 - 360DEG  
 C Interval:For a lens beam angle of 36°  
 Test Speed: HIGH  
 Temperature:77.54 °F  
 Operators:zoe  
 Test Date:2023-12-28

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-SPEX500\_V1 SYSTEM V2.00.461  
 Humidity:65.0%  
 Test Distance:124.409"[K=1.0000]  
 Remarks: LAMP:BXRV-DR-1830G-100Z-A-23 Ra:90  
 LENS:PM-1103B 36R+DIFFUSER  
 DRIVER:PUP10A-1WMC-700 500mA  
 30minutes warm-up

UGR(Unified Glare Rating) Table

Test:U:120.28V I:0.0949A P:11.285W PF:0.9873 Freq:59.98Hz Lamp Flux:889.25x1 lm											
NAME: CTL-MM-1.5-DM-36-SQ-AD-OPS					TYPE:			WEIGHT:			
SPEC.: 3000K					DIM.:			SERIAL No.: 2312281384			
MFR.: MERCURY LIGHTING					SUR.: 0.002601m2			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	18.9	19.8	19.2	20.0	20.2	18.3	19.3	18.6	19.4	19.6
	3H	18.8	19.7	19.1	19.9	20.1	18.2	19.1	18.5	19.3	19.5
	4H	18.8	19.6	19.0	19.8	20.0	18.2	19.0	18.5	19.2	19.4
	6H	18.7	19.4	19.0	19.7	19.9	18.1	18.8	18.4	19.1	19.3
	8H	18.7	19.4	19.0	19.6	19.9	18.1	18.8	18.4	19.0	19.3
	12H	18.6	19.3	18.9	19.6	19.9	18.0	18.7	18.4	19.0	19.3
4H	2H	18.8	19.6	19.0	19.8	20.0	18.2	19.0	18.5	19.2	19.4
	3H	18.7	19.4	19.0	19.6	19.9	18.1	18.8	18.4	19.1	19.3
	4H	18.6	19.3	19.0	19.5	19.9	18.1	18.7	18.4	19.0	19.3
	6H	18.6	19.1	18.9	19.4	19.8	18.0	18.5	18.4	18.9	19.2
	8H	18.5	19.0	18.9	19.4	19.8	18.0	18.5	18.4	18.8	19.2
	12H	18.5	19.0	18.9	19.3	19.7	17.9	18.4	18.3	18.8	19.2
8H	4H	18.5	19.0	18.9	19.4	19.7	17.9	18.4	18.3	18.8	19.2
	6H	18.4	18.9	18.9	19.3	19.7	17.9	18.3	18.3	18.7	19.1
	8H	18.4	18.8	18.9	19.2	19.6	17.9	18.2	18.3	18.6	19.1
	12H	18.4	18.7	18.9	19.2	19.6	17.8	18.2	18.3	18.6	19.1
12H	4H	18.5	18.9	18.9	19.3	19.7	17.9	18.4	18.3	18.7	19.1
	6H	18.4	18.8	18.8	19.2	19.6	17.8	18.2	18.3	18.6	19.1
	8H	18.4	18.7	18.9	19.1	19.6	17.8	18.1	18.3	18.6	19.0
Variations with the observer position at spacings(CIE Pub.117):											
S = 1.0H	+ 2.5 / - 5.3					+ 2.3 / - 5.7					
1.5H	+ 3.8 / - 3.5					+ 3.6 / - 3.8					
2.0H	+ 4.4 / - 4.6					+ 4.2 / - 4.6					

CIE Pub.117, 889.3 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -0.4)  
 Area: 0.002601 m2

C Range: 0 - 360DEG

C Interval:For a lens beam angle of 36°

Test Speed: HIGH

Temperature:77.54°F

Operators:zoe

Test Date:2023-12-28

γ Range: 0 - 180DEG

γ Interval: 1.0DEG

Test System:EVERFINE GO-SPEX500\_V1 SYSTEM V2.00.461

Humidity:65.0%

Test Distance:124.409"[K=1.0000]

Remarks: LAMP:BXRV-DR-1830G-100Z-A-23 Ra:90

LENS:PM-1103B 36R+DIFFUSER

DRIVER:PUP10A-1WMC-700 500mA

30minutes warm-up



**UTILIZATION FACTORS TABLE**

Test:U:120.28V I:0.0949A P:11.285W PF:0.9873 Freq:59.98Hz Lamp Flux:889.25x1 lm		
NAME: CTL-MM-1.5-DM-36-SQ-AD-OPS	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2312281384
MFR.: MERCURY LIGHTING	SUR.: 0.002601m2	Shielding Angle:

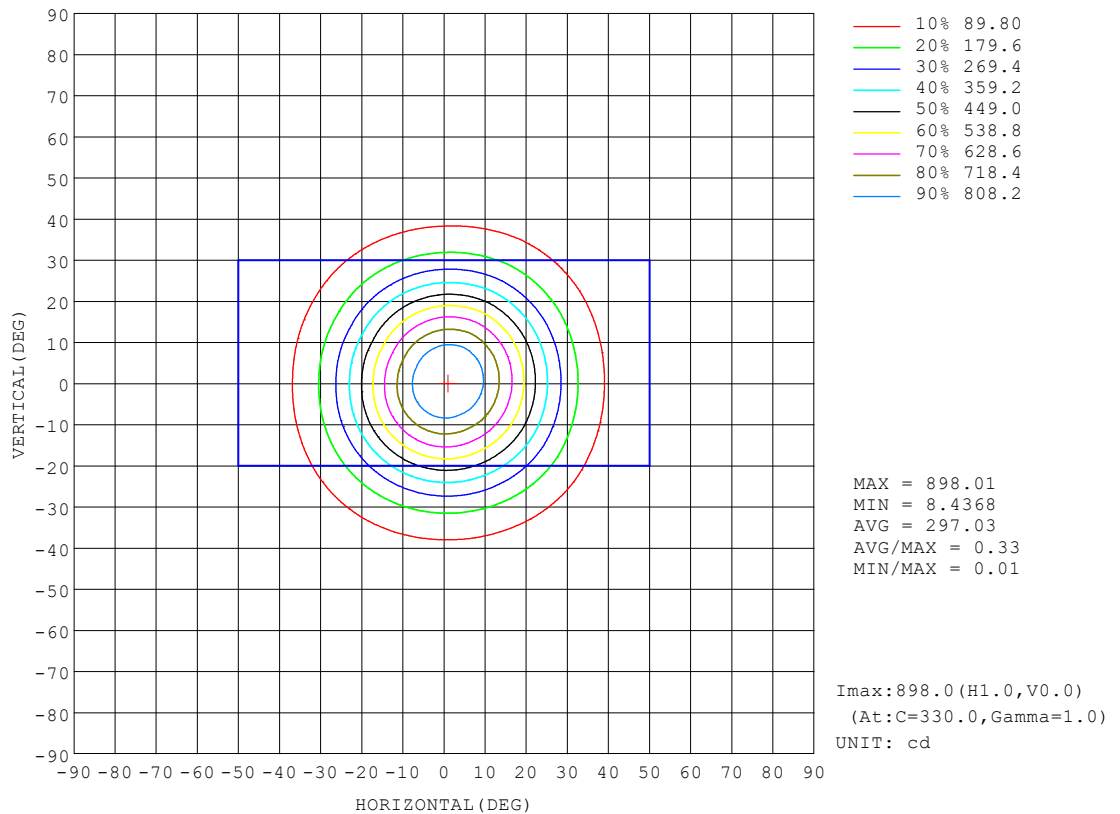
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	52	48	46	52	48	46	52	48	46	43
0.80	57	53	51	57	53	51	56	53	51	48
1.00	60	56	54	59	56	54	58	56	54	51
1.25	62	59	57	62	59	57	61	58	56	54
1.50	64	61	59	63	61	59	62	60	58	55
2.00	66	63	61	65	63	61	63	61	60	57
2.50	67	65	63	66	64	62	64	62	61	57
3.00	68	66	64	67	65	63	65	63	62	58
4.00	69	67	66	68	67	65	66	65	64	59
5.00	70	69	67	69	67	66	66	65	65	60
ROOM INDEX	UF (total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

C Range: 0 - 360DEG  
 C Interval: For a lens beam angle of 36°  
 Test Speed: HIGH  
 Temperature: 77.54 °F  
 Operators: zoe  
 Test Date: 2023-12-28

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-SPEX500\_V1 SYSTEM V2.00.461  
 Humidity: 65.0%  
 Test Distance: 124.409" [K=1.0000]  
 Remarks: LAMP: BXRV-DR-1830G-100Z-A-23 Ra: 90  
 LENS: PM-1103B 36R+DIFFUSER  
 DRIVER: PUP10A-1WMC-700 500mA  
 30minutes warm-up

## ISOCANDELA DIAGRAM

Test:U:120.28V I:0.0949A P:11.285W PF:0.9873 Freq:59.98Hz Lamp Flux:889.25x1 lm		
NAME: CTL-MM-1.5-DM-36-SQ-AD-OPS	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2312281384
MFR.: MERCURY LIGHTING	SUR.: 0.002601m2	Shielding Angle:



C Range: 0 - 360DEG

C Interval: For a lens beam angle of 36°

Test Speed: HIGH

Temperature: 77.54°F

Operators: zoe

Test Date: 2023-12-28

γ Range: 0 - 180DEG

γ Interval: 1.0DEG

Test System: EVERFINE GO-SPEX500\_V1 SYSTEM V2.00.461

Humidity: 65.0%

Test Distance: 124.409" [K=1.0000]

Remarks: LAMP: BXRV-DR-1830G-100Z-A-23 Ra: 90

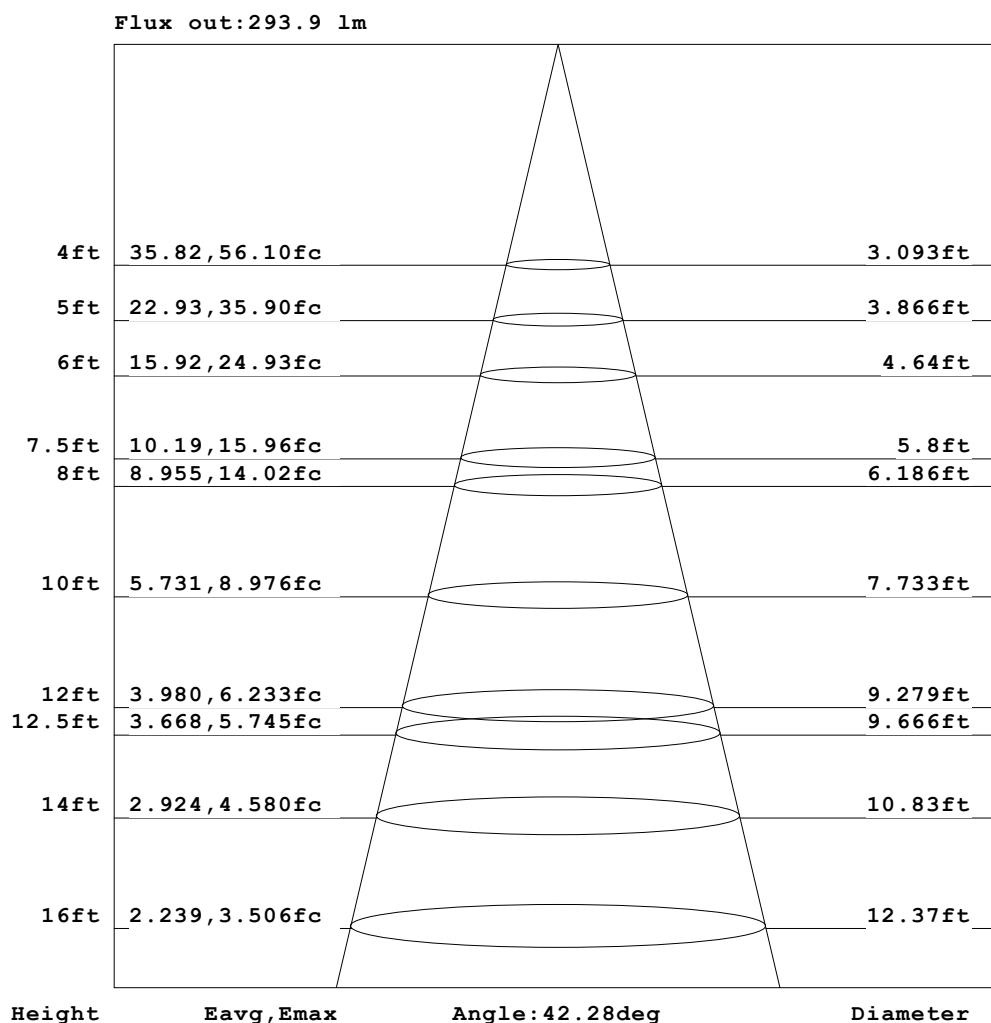
LENS: PM-1103B 36R+DIFFUSER

DRIVER: PUP10A-1WMC-700 500mA

30minutes warm-up

**AAI Figure**

Test:U:120.28V I:0.0949A P:11.285W PF:0.9873 Freq:59.98Hz Lamp Flux:889.25x1 lm		
NAME: CTL-MM-1.5-DM-36-SQ-AD-OPS	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2312281384
MFR.: MERCURY LIGHTING	SUR.: 0.002601m2	Shielding Angle:



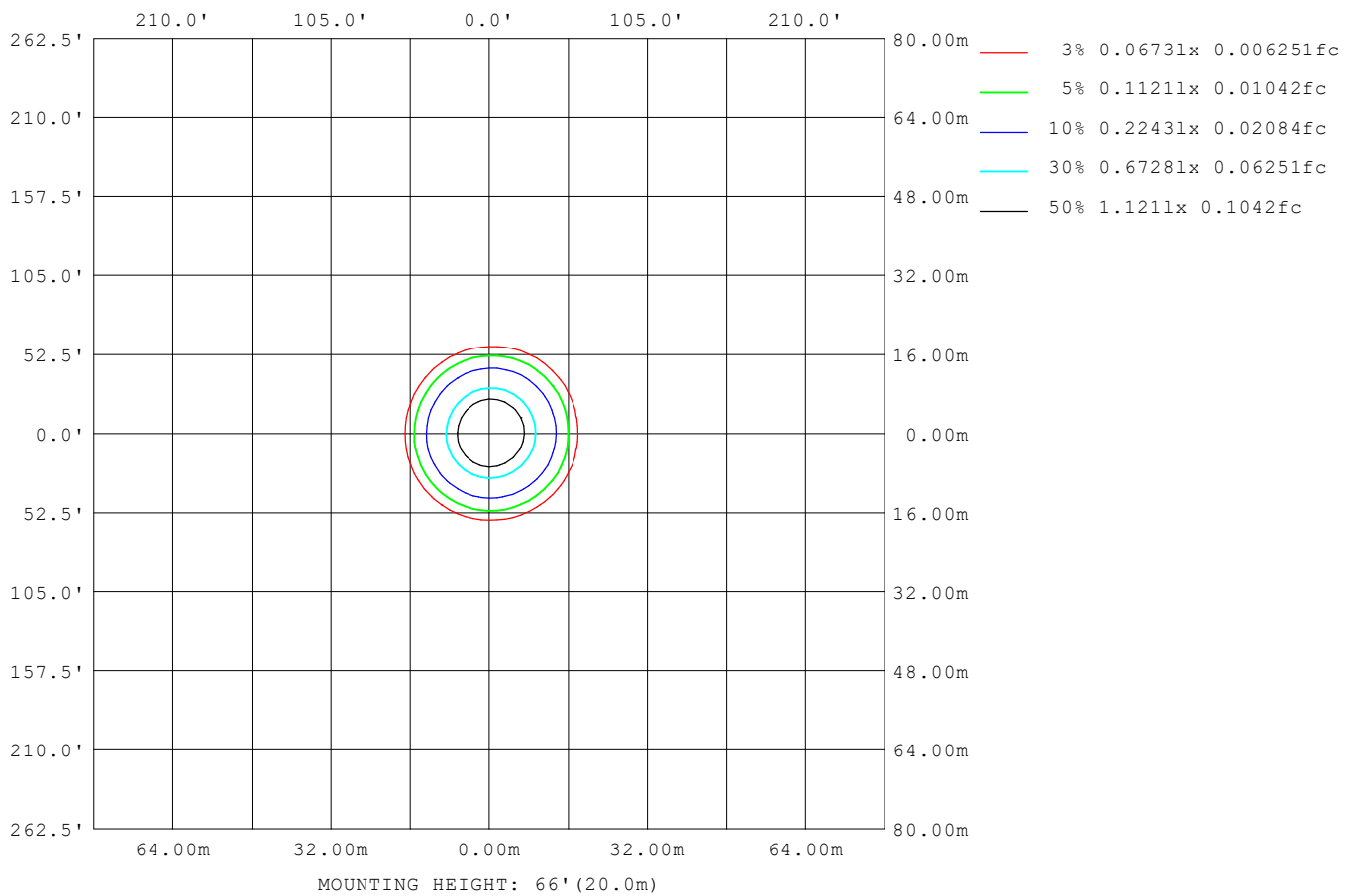
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
 C Interval: For a lens beam angle of 36°  
 Test Speed: HIGH  
 Temperature: 77.54°F  
 Operators: zoe  
 Test Date: 2023-12-28

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-SPEX500\_V1 SYSTEM V2.00.461  
 Humidity: 65.0%  
 Test Distance: 124.409" [K=1.0000]  
 Remarks: LAMP: BXRV-DR-1830G-100Z-A-23 Ra:90  
 LENS: PM-1103B 36R+DIFFUSER  
 DRIVER: PUP10A-1WMC-700 500mA  
 30minutes warm-up

**ISOLUX DIAGRAM**

<b>Test:</b> U:120.28V I:0.0949A P:11.285W PF:0.9873 Freq:59.98Hz <b>Lamp Flux:</b> 889.25x1 lm		
<b>NAME:</b> CTL-MM-1.5-DM-36-SQ-AD-OPS	<b>TYPE:</b>	<b>WEIGHT:</b>
<b>SPEC.:</b> 3000K	<b>DIM.:</b>	<b>SERIAL No.:</b> 2312281384
<b>MFR.:</b> MERCURY LIGHTING	<b>SUR.:</b> 0.002601m2	<b>Shielding Angle:</b>



**C Range:** 0 - 360DEG  
**C Interval:** For a lens beam angle of 36°  
**Test Speed:** HIGH  
**Temperature:** 77.54°F  
**Operators:** zoe  
**Test Date:** 2023-12-28

**γ Range:** 0 - 180DEG  
**γ Interval:** 1.0DEG  
**Test System:** EVERFINE GO-SPEX500\_V1 SYSTEM V2.00.461  
**Humidity:** 65.0%  
**Test Distance:** 124.409" [K=1.0000]  
**Remarks:** LAMP: BXRV-DR-1830G-100Z-A-23 Ra:90  
 LENS: PM-1103B 36R+DIFFUSER  
 DRIVER: PUP10A-1WMC-700 500mA  
 30minutes warm-up

**LED Avg.L Report**

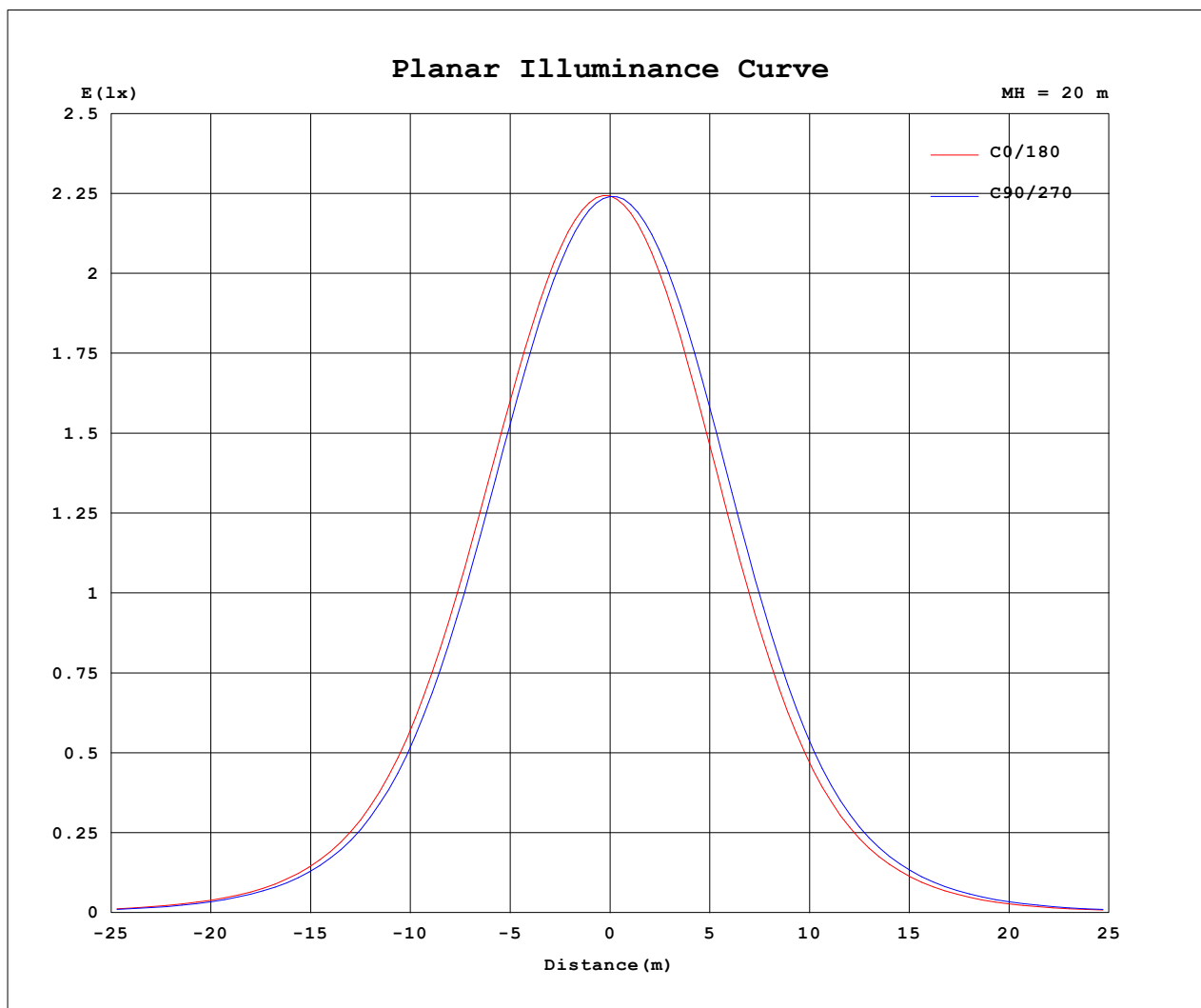
Test:U:120.28V I:0.0949A P:11.285W PF:0.9873 Freq:59.98Hz Lamp Flux:889.25x1 lm		
NAME: CTL-MM-1.5-DM-36-SQ-AD-OPS	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2312281384
MFR.: MERCURY LIGHTING	SUR.: 0.002601m2	Shielding Angle:

AvgL	cd/m2
L_0~180 (65) av	2666
L_0~180 (75) av	1386
L_0~180 (85) av	1935
L_90~270 (65) av	2604
L_90~270 (75) av	1378
L_90~270 (85) av	1917
L_45 (65) av	3399
L_45 (75) av	1731
L_45 (85) av	2095

Standard: GB/T 29293-2012

C Range: 0 - 360DEG C Interval: For a lens beam angle of 36° Test Speed: HIGH Temperature: 77.54 °F Operators: zoe Test Date: 2023-12-28	γ Range: 0 - 180DEG γ Interval: 1.0DEG Test System: EVERFINE GO-SPEX500_V1 SYSTEM V2.00.461 Humidity: 65.0% Test Distance: 124.409" [K=1.0000] Remarks: LAMP: BXR-V-DR-1830G-100Z-A-23 Ra: 90 LENS: PM-1103B 36R+DIFFUSER DRIVER: PUP10A-1WMC-700 500mA 30minutes warm-up
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### Planar Illuminance Curve



C Range: 0 - 360DEG  
C Interval: For a lens beam angle of 36°  
Test Speed: HIGH  
Temperature: 77.54 °F  
Operators: zoe  
Test Date: 2023-12-28

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System: EVERFINE GO-SPEX500\_V1 SYSTEM V2.00.461  
Humidity: 65.0%  
Test Distance: 124.409" [K=1.0000]  
Remarks: LAMP: BXRV-DR-1830G-100Z-A-23 Ra: 90  
LENS: PM-1103B 36R+DIFFUSER  
DRIVER: PUP10A-1WMC-700 500mA  
30minutes warm-up

**LUMINOUS DISTRIBUTION INTENSITY DATA**

Test:U:120.28V I:0.0949A P:11.285W PF:0.9873 Freq:59.98Hz Lamp Flux:889.25x1 lm		
NAME: CTL-MM-1.5-DM-36-SQ-AD-OPS	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2312281384
MFR.: MERCURY LIGHTING	SUR.: 0.002601m2	Shielding Angle:

Table--1

UNIT: cd

C (DEG) γ (DEG)	0	30	60	90	120	150	180	210	240	270	300	330						
0	897	897	897	897	897	897	897	897	897	897	897	897						
5	877	872	866	862	859	857	855	857	866	874	880	880						
10	800	789	778	775	769	762	754	757	776	795	809	808						
15	675	661	647	642	633	622	611	613	639	664	685	685						
20	520	509	492	485	473	462	450	452	478	503	525	528						
25	365	357	341	332	321	312	302	305	325	344	364	368						
30	233	230	217	210	201	194	188	189	204	216	232	235						
35	140	138	129	125	119	115	111	112	120	129	139	141						
40	80.3	79.0	74.6	72.0	69.2	66.0	61.3	64.0	69.0	73.4	80.8	81.5						
45	45.0	45.2	42.7	39.5	39.9	37.0	32.2	36.2	39.0	39.4	46.8	47.3						
50	24.0	26.2	24.3	20.4	22.4	20.4	16.0	20.1	21.6	19.6	26.5	27.1						
55	12.2	14.9	13.1	10.1	11.9	10.3	7.72	10.5	11.0	9.74	14.0	14.7						
60	6.02	8.07	6.99	5.03	6.25	5.33	4.03	5.35	5.67	4.90	7.25	7.67						
65	3.45	4.42	3.96	2.98	3.47	3.08	2.41	2.93	3.11	2.74	4.01	4.17						
70	2.16	2.57	2.40	1.81	2.05	1.77	1.26	1.61	1.70	1.48	2.22	2.40						
75	1.19	1.45	1.36	1.03	1.11	0.95	0.68	0.85	0.91	0.82	1.18	1.30						
80	0.69	0.88	0.83	0.66	0.62	0.61	0.49	0.55	0.57	0.52	0.69	0.78						
85	0.58	0.64	0.62	0.48	0.45	0.37	0.29	0.29	0.34	0.38	0.48	0.58						
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 lens beam angle of 36°

Test Speed: HIGH

Temperature: 77.54 °F

Operators: zoe

Test Date: 2023-12-28

γ Range: 0 - 180DEG

γ Interval: 1.0DEG

Test System: EVERFINE GO-SPEX500\_V1 SYSTEM V2.00.461

Humidity: 65.0%

Test Distance: 124.409" [K=1.0000]

Remarks: LAMP: BXR-V-DR-1830G-100Z-A-23 Ra: 90

LENS: PM-1103B 36R+DIFFUSER

DRIVER: PUP10A-1WMC-700 500mA

30minutes warm-up