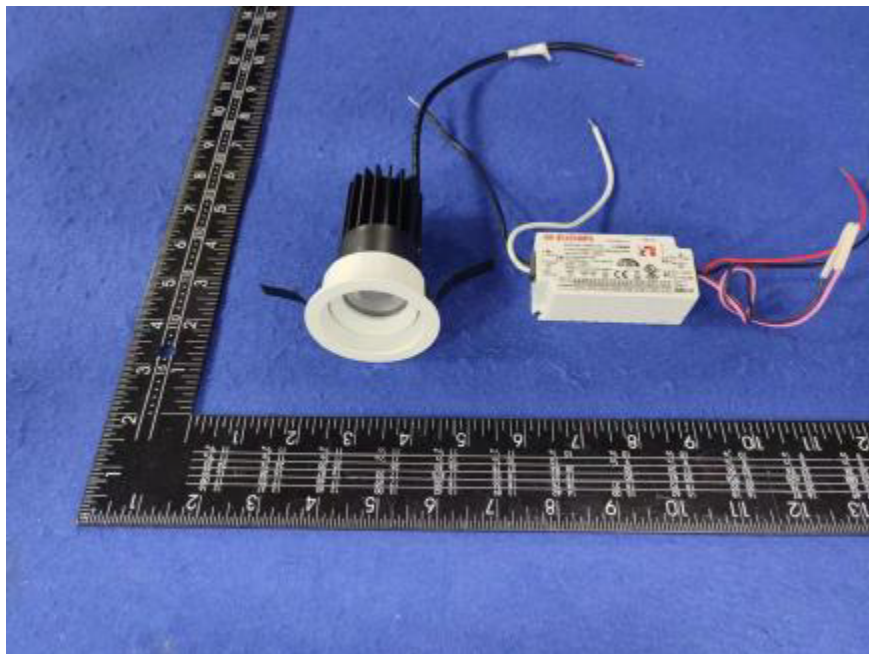


## Photometric report for Flanged and Flangeless Trim



Light Output Ratio:	60.1%	
Luminaire Power:	11.26 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: 2023-12-25

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

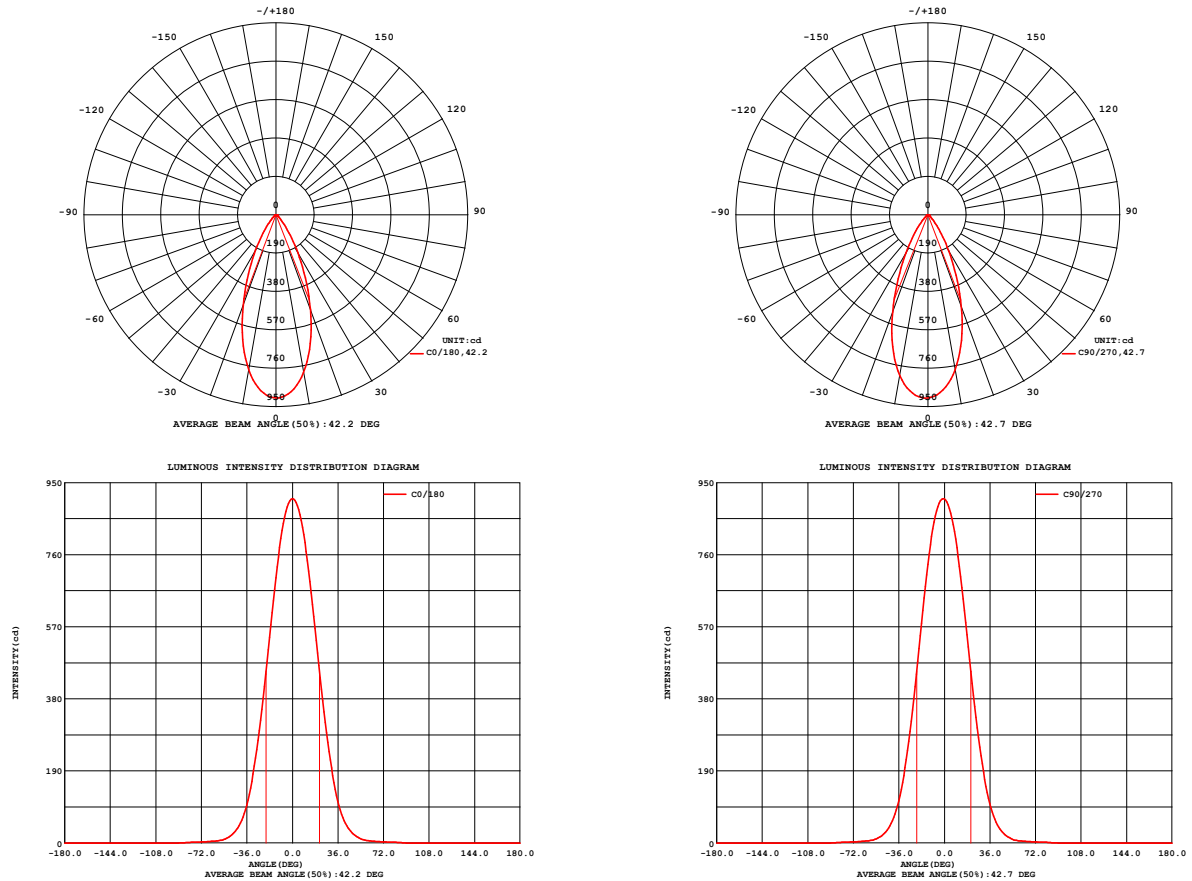


Fig. C0/C180

Fig. C90/C270

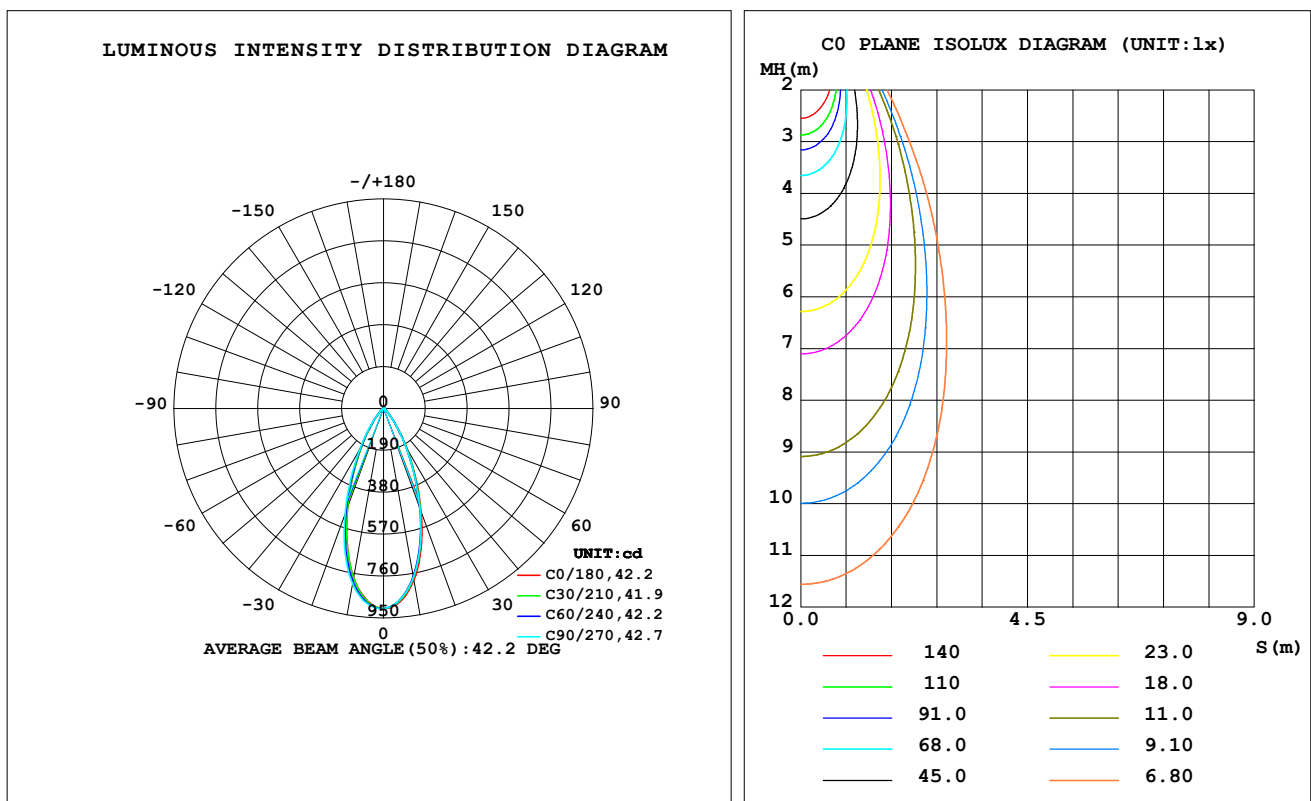
C Range: 0 - 360DEG  
 C Interval: For a lens beam angle of 36°  
 Test Speed: HIGH  
 Temperature: 77.54 °F  
 Operators: zoe  
 Test Date: 2023-12-25

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:120.18V I:0.0949A P:11.255W PF:0.9856 Freq:59.98Hz Lamp Flux:893.4x1 lm		
NAME: CTL-MM-1.5-DM-36-RD-AD-OPS-SG	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2312251376
MFR.: MERCURY LIGHTING	SUR.: 0.001589625m <sup>2</sup>	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 47.73 lm/W			
MODEL	Bridgelux	I <sub>max</sub> (cd)	907.7	S/MH (C0/180)	0.67
NOMINAL POWER (W)	11	LOR (%)	60.1	S/MH (C90/270)	0.70
RATED VOLTAGE (V)	120	TOTAL FLUX (lm)	537.17	☒ UP, DN (C0-180)	0.0, 29.7
NOMINAL FLUX (lm)	893.4	CIE CLASS	DIRECT	☒ UP, DN (C180-360)	0.0, 30.4
LAMPS INSIDE	1	☒ up (%)	0.0	CIBSE SHR NOM	0.50
TEST VOLTAGE (V)	120	☒ down (%)	60.1	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: 2023-12-25

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

### ZONAL FLUX DIAGRAM

#### ZONAL FLUX DIAGRAM:

θ	C0	C45	C90	C135	C180	C225	C270	C315	φ	zone	total	%lum,lamp
10	791.6	778.0	778.4	781.9	779.4	789.6	808.0	808.4	0- 10	80.92	80.92	15.1,9.06
20	500.4	485.2	484.0	484.2	476.6	487.3	512.3	518.7	10- 20	179.7	260.6	48.5,29.2
30	218.5	211.4	208.4	206.6	202.8	207.8	220.1	226.0	20- 30	154.9	415.5	77.3,46.5
40	66.80	63.57	62.44	62.09	59.71	61.35	67.24	70.28	30- 40	77.85	493.3	91.8,55.2
50	18.77	17.72	16.46	16.02	15.96	16.28	17.36	18.84	40- 50	27.28	520.6	96.9,58.3
60	6.037	5.719	5.460	5.399	5.355	5.509	5.858	6.079	50- 60	8.771	529.4	98.6,59.3
70	3.214	3.115	3.022	2.940	2.883	2.963	3.121	3.211	60- 70	4.184	533.6	99.3,59.7
80	2.003	1.953	1.896	1.711	1.762	1.818	1.943	2.002	70- 80	2.551	536.1	99.8,60
90	0	0	0	0	0	0	0	0	80- 90	1.035	537.2	100,60.1
100	0	0	0	0	0	0	0	0	90-100	0	537.2	100,60.1
110	0	0	0	0	0	0	0	0	100-110	0	537.2	100,60.1
120	0	0	0	0	0	0	0	0	110-120	0	537.2	100,60.1
130	0	0	0	0	0	0	0	0	120-130	0	537.2	100,60.1
140	0	0	0	0	0	0	0	0	130-140	0	537.2	100,60.1
150	0	0	0	0	0	0	0	0	140-150	0	537.2	100,60.1
160	0	0	0	0	0	0	0	0	150-160	0	537.2	100,60.1
170	0	0	0	0	0	0	0	0	160-170	0	537.2	100,60.1
180	0	0	0	0	0	0	0	0	170-180	0	537.2	100,60.1
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:2023-12-25

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

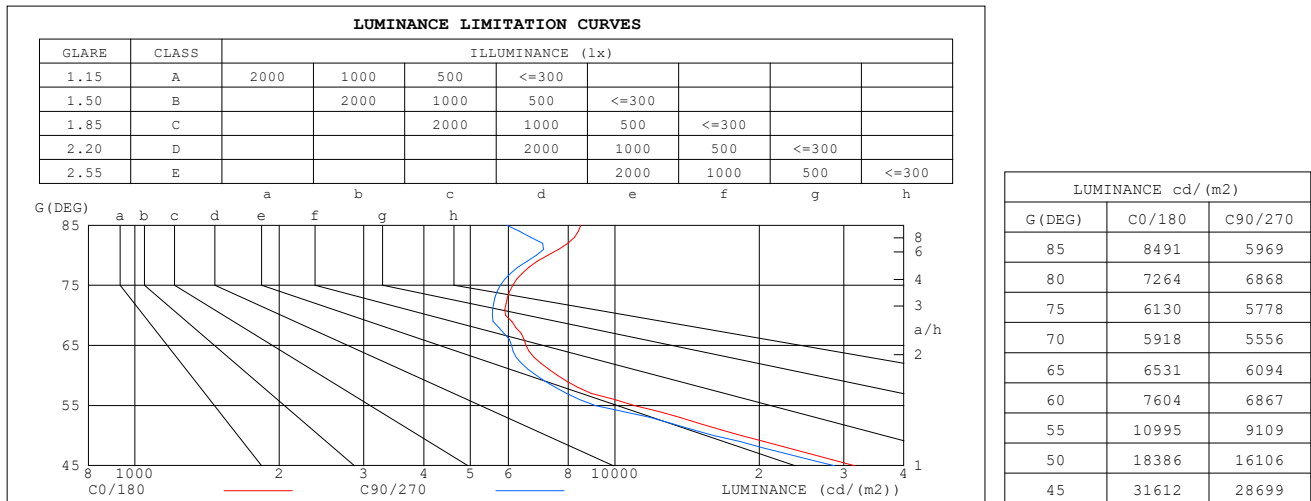
LENS:PM-1103B 36R+DIFFUSER

DRIVER:PUP10A-1WMC-700 500mA

30minutes warm-up

## LUMINANCE LIMITATION CURVES

Test:U:120.18V I:0.0949A P:11.255W PF:0.9856 Freq:59.98Hz Lamp Flux:893.4x1 lm		
NAME: CTL-MM-1.5-DM-36-RD-AD-OPS-SG	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2312251376
MFR.: MERCURY LIGHTING	SUR.: 0.001589625m2	Shielding Angle:



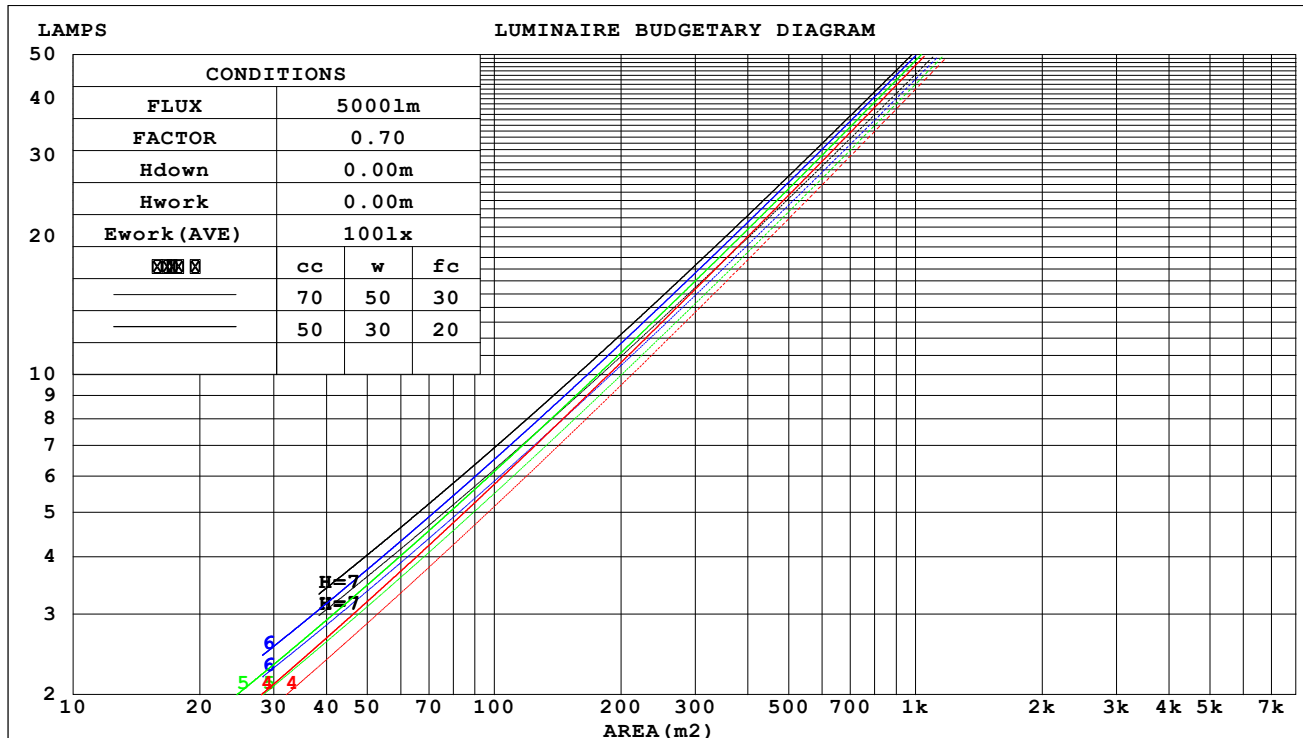
C Range: 0 - 360DEG  
 C Interval: For a lens beam angle of 36°  
 Test Speed: HIGH  
 Temperature: 77.54 °F  
 Operators: zoe  
 Test Date: 2023-12-25

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:120.18V I:0.0949A P:11.255W PF:0.9856 Freq:59.98Hz Lamp Flux:893.4x1 lm		
NAME: CTL-MM-1.5-DM-36-RD-AD-OPS-SG	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2312251376
MFR.: MERCURY LIGHTING	SUR.: 0.001589625m2	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	.72	.72	.72	.70	.70	.70	.67	.67	.67	.64	.64	.64	.61	.61	.61	.60
1.0	.67	.65	.64	.65	.64	.63	.63	.62	.61	.61	.60	.59	.59	.58	.57	.56
2.0	.62	.60	.58	.61	.59	.57	.59	.58	.56	.58	.56	.55	.56	.55	.54	.53
3.0	.58	.56	.53	.58	.55	.53	.56	.54	.52	.55	.53	.51	.53	.52	.50	.49
4.0	.55	.52	.49	.54	.51	.49	.53	.50	.48	.52	.50	.48	.51	.49	.47	.46
5.0	.52	.48	.46	.51	.48	.46	.50	.47	.45	.49	.47	.45	.48	.46	.45	.44
6.0	.49	.45	.43	.48	.45	.43	.48	.45	.43	.47	.44	.42	.46	.44	.42	.41
7.0	.46	.43	.41	.46	.43	.40	.45	.42	.40	.44	.42	.40	.44	.42	.40	.39
8.0	.44	.41	.38	.44	.40	.38	.43	.40	.38	.42	.40	.38	.42	.39	.38	.37
9.0	.42	.38	.36	.42	.38	.36	.41	.38	.36	.40	.38	.36	.40	.38	.36	.35
10.0	.40	.37	.34	.40	.36	.34	.39	.36	.34	.39	.36	.34	.38	.36	.34	.33



C Range: 0 - 360DEG

C Interval: For a lens beam angle of 36°

Test Speed: HIGH

Temperature: 77.54 °F

Operators: zoe

Test Date: 2023-12-25

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:120.18V I:0.0949A P:11.255W PF:0.9856 Freq:59.98Hz Lamp Flux:893.4x1 lm		
NAME: CTL-MM-1.5-DM-36-RD-AD-OPS-SG	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2312251376
MFR.: MERCURY LIGHTING	SUR.: 0.001589625m2	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	.105	.060	.019	.101	.057	.018	.093	.053	.017	.086	.050	.016	.080	.046	.015	
2.0	.099	.054	.017	.096	.053	.016	.090	.050	.015	.084	.047	.015	.078	.044	.014	
3.0	.094	.050	.015	.091	.049	.015	.086	.046	.014	.081	.044	.014	.076	.042	.013	
4.0	.089	.046	.014	.087	.045	.013	.082	.043	.013	.078	.042	.013	.074	.040	.012	
5.0	.084	.043	.012	.082	.042	.012	.078	.041	.012	.075	.039	.012	.071	.038	.011	
6.0	.080	.040	.012	.079	.040	.011	.075	.038	.011	.072	.037	.011	.069	.036	.011	
7.0	.077	.038	.011	.075	.037	.011	.072	.036	.010	.069	.035	.010	.066	.034	.010	
8.0	.073	.036	.010	.072	.035	.010	.069	.034	.010	.066	.034	.010	.064	.033	.010	
9.0	.070	.034	.009	.069	.034	.009	.066	.033	.009	.064	.032	.009	.062	.031	.009	
10.0	.067	.032	.009	.066	.032	.009	.064	.031	.009	.062	.031	.009	.060	.030	.009	

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	.115	.115	.115	.098	.098	.098	.067	.067	.067	.038	.038	.038	.012	.012	.012		
1.0	.103	.095	.087	.088	.081	.075	.060	.056	.052	.035	.032	.030	.011	.010	.010		
2.0	.093	.080	.068	.080	.069	.059	.055	.047	.041	.032	.028	.024	.010	.009	.008		
3.0	.086	.068	.054	.073	.059	.047	.050	.041	.033	.029	.024	.019	.009	.008	.006		
4.0	.079	.059	.044	.068	.051	.038	.047	.036	.027	.027	.021	.016	.009	.007	.005		
5.0	.074	.052	.036	.063	.045	.032	.044	.032	.022	.025	.019	.013	.008	.006	.004		
6.0	.069	.047	.030	.060	.040	.027	.041	.028	.019	.024	.017	.011	.008	.005	.004		
7.0	.065	.042	.026	.056	.036	.022	.039	.026	.016	.023	.015	.009	.007	.005	.003		
8.0	.062	.038	.022	.053	.033	.019	.037	.023	.014	.021	.014	.008	.007	.005	.003		
9.0	.059	.035	.019	.050	.030	.017	.035	.021	.012	.020	.013	.007	.007	.004	.002		
10.0	.056	.032	.017	.048	.028	.015	.033	.020	.010	.019	.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:2023-12-25

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:120.18V I:0.0949A P:11.255W PF:0.9856 Freq:59.98Hz Lamp Flux:893.4x1 lm											
NAME: CTL-MM-1.5-DM-36-RD-AD-OPS-SG					TYPE:			WEIGHT:			
SPEC.: 3000K					DIM.:			SERIAL No.: 2312251376			
MFR.: MERCURY LIGHTING					SUR.: 0.001589625m2			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	19.5	20.4	19.7	20.6	20.7	19.1	20.0	19.3	20.2	20.3
	3H	19.5	20.3	19.8	20.5	20.7	19.1	19.9	19.3	20.1	20.3
	4H	19.5	20.3	19.8	20.5	20.7	19.1	19.9	19.4	20.1	20.3
	6H	19.6	20.3	19.9	20.5	20.8	19.2	19.9	19.5	20.1	20.4
	8H	19.6	20.3	19.9	20.6	20.8	19.2	19.9	19.5	20.2	20.4
	12H	19.6	20.3	19.9	20.6	20.9	19.2	19.9	19.5	20.1	20.4
4H	2H	19.3	20.1	19.6	20.3	20.6	18.9	19.7	19.2	19.9	20.2
	3H	19.4	20.1	19.7	20.3	20.6	19.0	19.7	19.3	20.0	20.2
	4H	19.5	20.1	19.8	20.4	20.7	19.1	19.7	19.4	20.0	20.3
	6H	19.6	20.1	20.0	20.5	20.8	19.2	19.8	19.6	20.1	20.4
	8H	19.7	20.2	20.1	20.5	20.9	19.3	19.8	19.7	20.1	20.5
	12H	19.8	20.2	20.2	20.6	21.0	19.3	19.8	19.7	20.2	20.5
8H	4H	19.4	19.9	19.8	20.3	20.6	19.0	19.5	19.4	19.9	20.3
	6H	19.6	20.0	20.0	20.4	20.8	19.3	19.7	19.7	20.1	20.5
	8H	19.8	20.1	20.2	20.6	21.0	19.4	19.8	19.8	20.2	20.6
	12H	19.9	20.2	20.4	20.7	21.2	19.5	19.8	20.0	20.3	20.7
12H	4H	19.4	19.8	19.8	20.2	20.6	19.0	19.5	19.4	19.8	20.2
	6H	19.6	20.0	20.1	20.4	20.8	19.3	19.6	19.7	20.0	20.5
	8H	19.8	20.1	20.3	20.6	21.0	19.4	19.8	19.9	20.2	20.7
Variations with the observer position at spacings(CIE Pub.117):											
S = 1.0H	+ 2.2 / - 3.2					+ 2.2 / - 3.2					
1.5H	+ 3.7 / - 3.2					+ 3.7 / - 3.2					
2.0H	+ 3.5 / - 1.6					+ 3.3 / - 1.6					

CIE Pub.117, 893.4 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -0.4)  
 Area: 0.00158963 m2

C Range: 0 - 360DEG	γ Range: 0 - 180DEG
C Interval: For a lens beam angle of 36°	γ Interval: 1.0DEG
Test Speed: HIGH	Test System: EVERFINE GO-SPEX500_V1 SYSTEM V2.00.461
Temperature: 77.54 °F	Humidity: 65.0%
Operators: zoe	Test Distance: 124.409" [K=1.0000]
Test Date: 2023-12-25	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:120.18V I:0.0949A P:11.255W PF:0.9856 Freq:59.98Hz Lamp Flux:893.4x1 lm		
NAME: CTL-MM-1.5-DM-36-RD-AD-OPS-SG	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2312251376
MFR.: MERCURY LIGHTING	SUR.: 0.001589625m2	Shielding Angle:

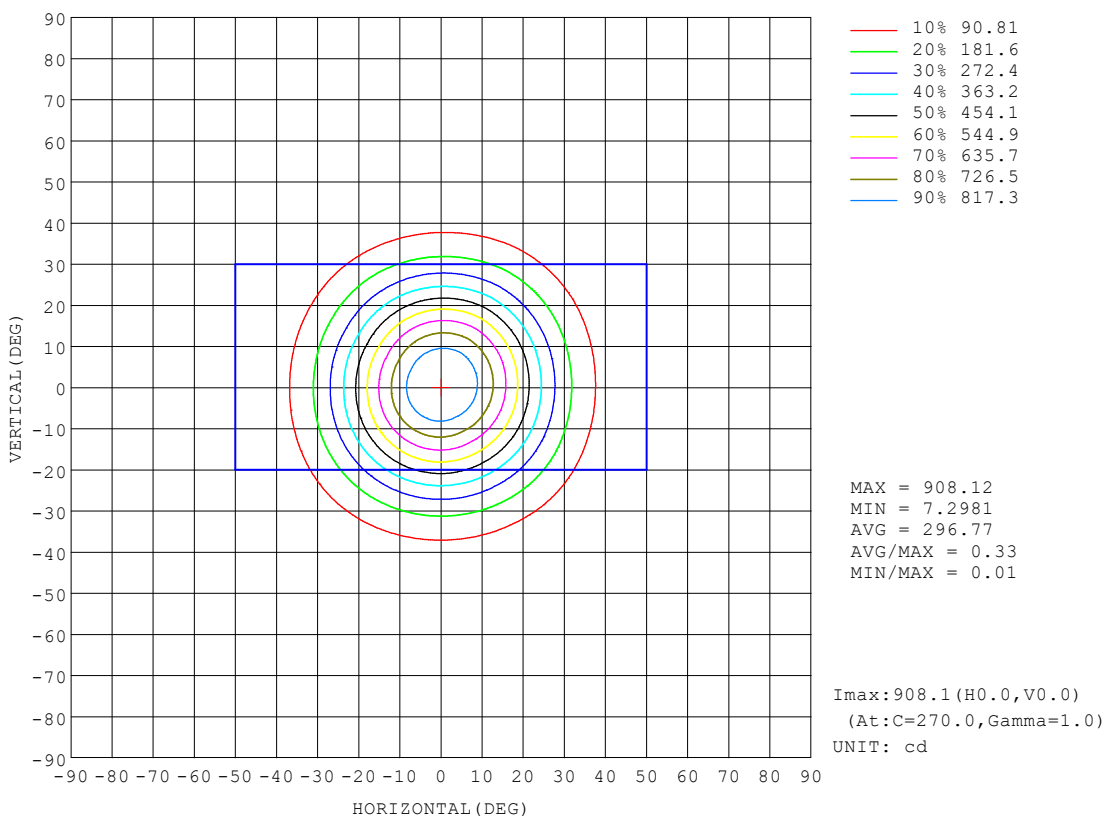
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	52	48	46	52	48	46	51	48	46	43
0.80	57	53	51	56	53	51	55	52	50	48
1.00	59	56	54	59	56	53	58	55	53	51
1.25	62	59	56	61	58	56	60	57	56	53
1.50	63	60	58	63	60	58	61	59	57	55
2.00	65	62	61	64	62	60	63	61	59	56
2.50	66	64	62	65	63	61	63	62	60	57
3.00	67	65	63	66	64	63	64	62	61	57
4.00	68	67	65	67	66	64	65	64	63	58
5.00	69	68	66	68	67	66	65	64	64	59
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: 2023-12-25

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:120.18V I:0.0949A P:11.255W PF:0.9856 Freq:59.98Hz Lamp Flux:893.4x1 lm		
NAME: CTL-MM-1.5-DM-36-RD-AD-OPS-SG	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2312251376
MFR.: MERCURY LIGHTING	SUR.: 0.001589625m2	Shielding Angle:



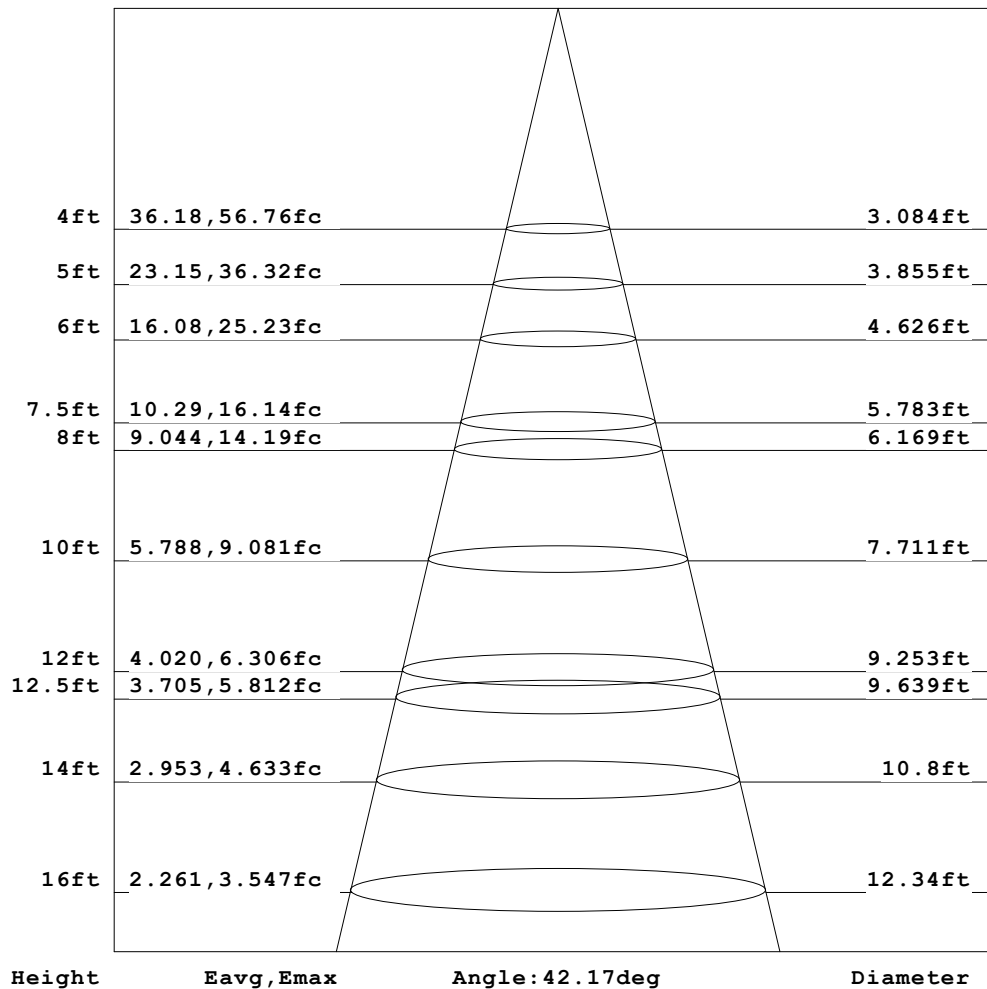
C Range: 0 - 360DEG  
 C Interval: For a lens beam angle of 36°  
 Test Speed: HIGH  
 Temperature: 77.54 °F  
 Operators: zoe  
 Test Date: 2023-12-25

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

**AAI Figure**

Test:U:120.18V I:0.0949A P:11.255W PF:0.9856 Freq:59.98Hz Lamp Flux:893.4x1 lm		
NAME: CTL-MM-1.5-DM-36-RD-AD-OPS-SG	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2312251376
MFR.: MERCURY LIGHTING	SUR.: 0.001589625m2	Shielding Angle:

Flux out:296.8 lm



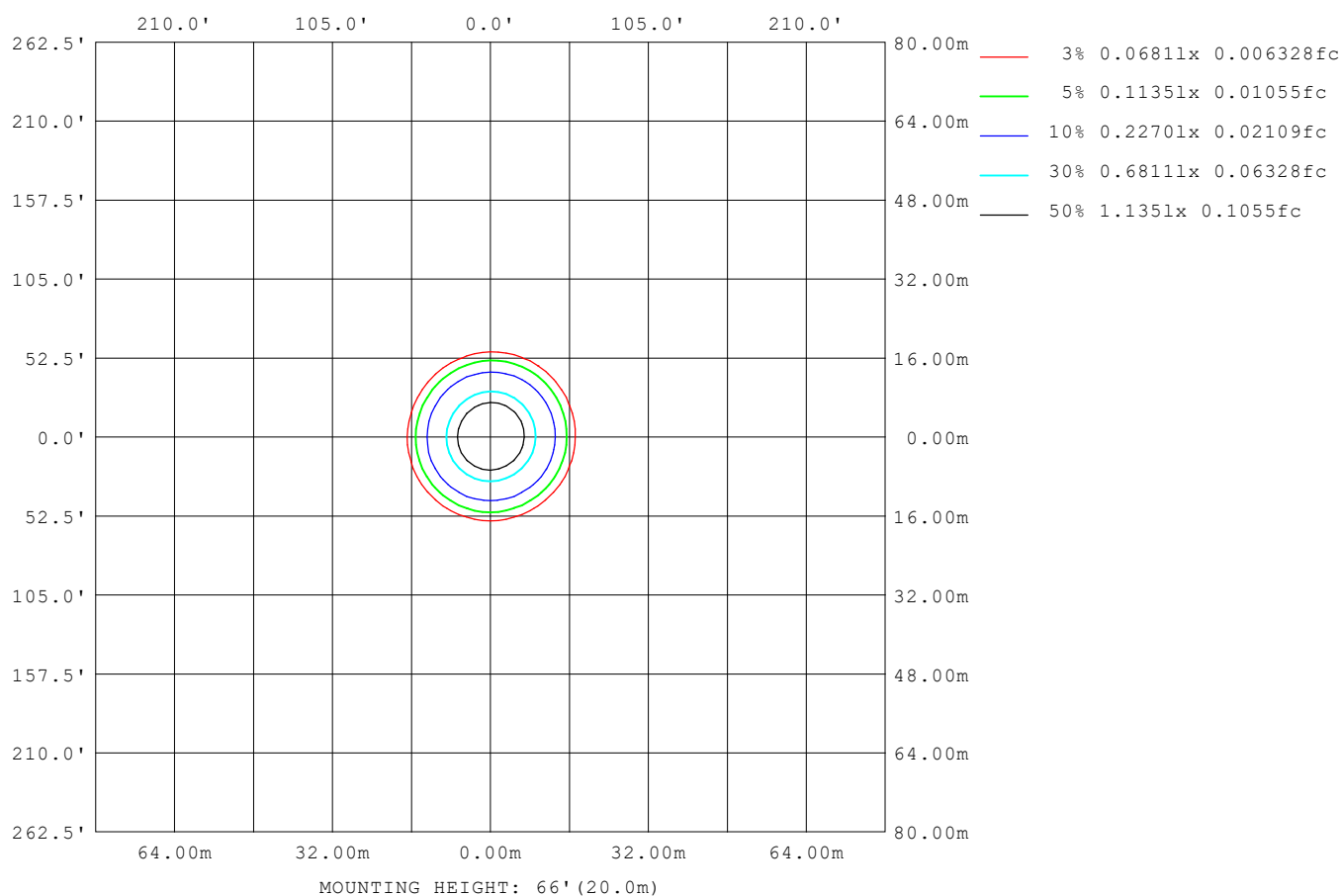
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
 C Interval: For a lens beam angle of 36°  
 Test Speed: HIGH  
 Temperature: 77.54 °F  
 Operators: zoe  
 Test Date: 2023-12-25

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:120.18V I:0.0949A P:11.255W PF:0.9856 Freq:59.98Hz <b>Lamp Flux:</b> 893.4x1 lm		
<b>NAME:</b> CTL-MM-1.5-DM-36-RD-AD-OPS-SG	<b>TYPE:</b>	<b>WEIGHT:</b>
<b>SPEC.:</b> 3000K	<b>DIM.:</b>	<b>SERIAL No.:</b> 2312251376
<b>MFR.:</b> MERCURY LIGHTING	<b>SUR.:</b> 0.001589625m2	<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:** 2023-12-25

**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

### LED Avg.L Report

Test:U:120.18V I:0.0949A P:11.255W PF:0.9856 Freq:59.98Hz Lamp Flux:893.4x1 lm		
NAME: CTL-MM-1.5-DM-36-RD-AD-OPS-SG	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2312251376
MFR.: MERCURY LIGHTING	SUR.: 0.001589625m2	Shielding Angle:

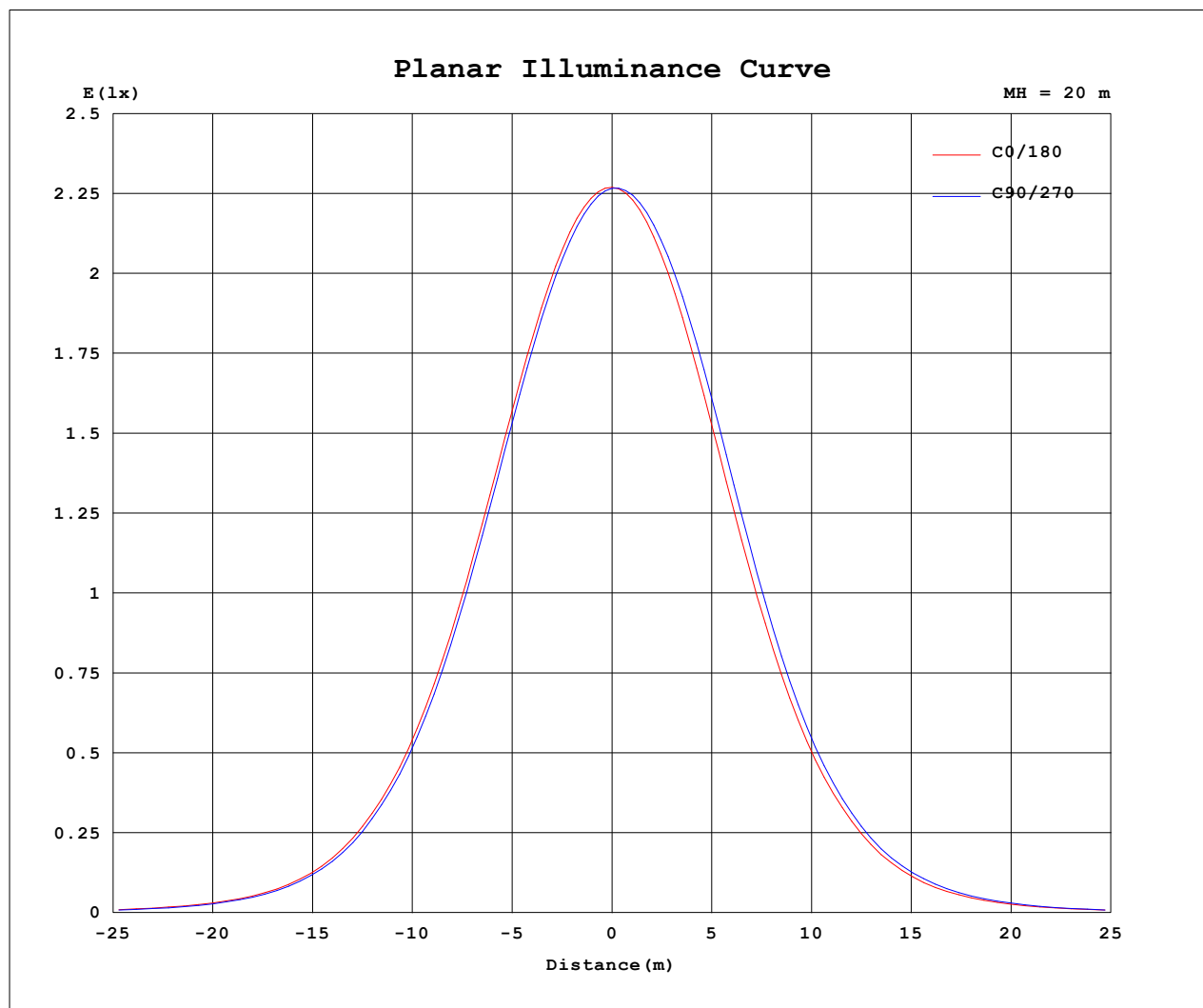
AvgL	cd/m2
L_0~180 (65) av	6264
L_0~180 (75) av	5797
L_0~180 (85) av	7137
L_90~270 (65) av	6220
L_90~270 (75) av	5861
L_90~270 (85) av	6783
L_45 (65) av	6241
L_45 (75) av	5813
L_45 (85) av	7087

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: 2023-12-25

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

## 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: 2023-12-25

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

**LUMINOUS DISTRIBUTION INTENSITY DATA**

Test:U:120.18V I:0.0949A P:11.255W PF:0.9856 Freq:59.98Hz Lamp Flux:893.4x1 lm		
NAME: CTL-MM-1.5-DM-36-RD-AD-OPS-SG	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2312251376
MFR.: MERCURY LIGHTING	SUR.: 0.001589625m2	Shielding Angle:

Table--1

UNIT: cd

C (DEG) (DEG)	0	30	60	90	120	150	180	210	240	270	300	330						
0	907	907	907	907	907	907	907	907	907	907	907	907						
5	879	873	869	869	871	873	873	875	882	887	888	883						
10	792	781	775	778	781	783	779	782	797	808	813	804						
15	659	647	637	643	646	645	639	641	661	677	685	674						
20	500	490	481	484	485	483	477	478	497	512	523	515						
25	346	339	330	331	331	329	323	324	339	350	360	355						
30	219	215	207	208	207	206	203	203	213	220	228	224						
35	125	123	117	118	117	117	114	114	120	125	131	128						
40	66.8	64.9	62.2	62.4	62.4	61.8	59.7	59.5	63.2	67.2	71.0	69.6						
45	35.5	34.5	32.7	32.3	32.0	31.8	31.1	30.9	32.7	34.6	36.9	36.7						
50	18.8	18.3	17.1	16.5	16.0	16.0	16.0	15.9	16.7	17.4	18.8	18.9						
55	10.0	9.53	8.98	8.31	8.17	8.19	8.16	8.20	8.68	9.38	9.82	10.1						
60	6.04	5.85	5.58	5.46	5.40	5.39	5.35	5.40	5.62	5.86	6.06	6.09						
65	4.38	4.29	4.17	4.10	4.06	4.07	4.03	4.04	4.15	4.26	4.37	4.41						
70	3.21	3.15	3.08	3.02	2.97	2.91	2.88	2.91	3.02	3.12	3.20	3.23						
75	2.52	2.48	2.42	2.38	2.30	2.28	2.25	2.27	2.35	2.44	2.51	2.53						
80	2.00	1.97	1.93	1.90	1.63	1.79	1.76	1.77	1.86	1.94	2.00	2.01						
85	1.18	1.13	1.03	0.83	0.78	0.82	0.80	0.83	0.95	1.05	1.13	1.17						
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: 2023-12-25

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: BXRVR-DR-1830G-100Z-A-23 Ra: 90

LENS: PM-1103B 36R+DIFFUSER

DRIVER: PUP10A-1WMC-700 500mA

30minutes warm-up