

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P293790

Luminaire Tested: **24GR-LD5-85-A125-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P293790  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33307)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24GR-LD5-85-A125-UNV-L82765-W2A1-U-6500K  
Description: GRLED 2x4 TUNABLE WHITE TROFFER  
WITH A125 LENS  
Light Source: (336) 80 CRI LEDS TUNED TO 6500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8680.0 lumens  
Efficiency: N/A  
Efficacy: 133.1 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.22 / 1.27  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

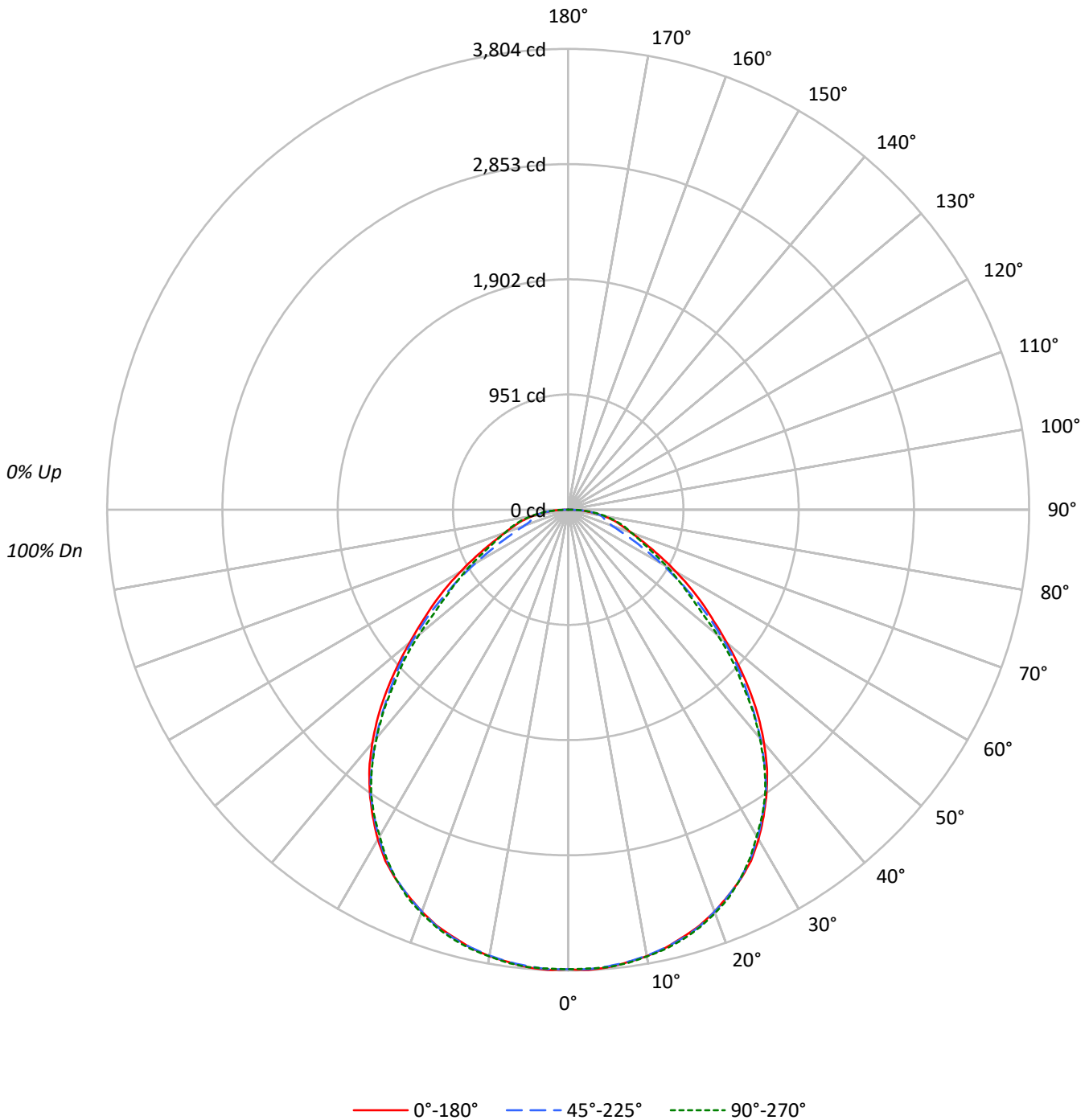
Input Watts (W): 65.193  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20					20					20					20					20					
RC	80					70					50					30					10					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	110	105	101	98	107	103	100	96	99	96	93	95	93	90	91	90	88	86					86			
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	79	76	74					74			
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	73	69	66	64					64			
4	86	75	66	60	83	73	66	60	71	64	59	68	63	58	66	61	57	55					55			
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	49					49			
6	73	61	53	47	72	60	52	46	58	51	46	57	50	46	55	50	45	43					43			
7	68	56	47	42	67	55	47	41	53	46	41	52	46	41	51	45	41	39					39			
8	64	51	43	37	62	50	43	37	49	42	37	48	41	37	47	41	37	35					35			
9	60	47	39	34	58	46	39	34	45	38	34	44	38	33	43	38	33	32					32			
10	56	44	36	31	55	43	36	31	42	35	31	41	35	31	40	35	30	29					29			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	5103	5103	5103
5°	5121	5110	5119
10°	5114	5106	5115
15°	5089	5098	5112
20°	5055	5055	5074
25°	4998	4987	4992
30°	4881	4856	4832
35°	4689	4675	4657
40°	4417	4336	4317
45°	4040	3929	3857
50°	3571	3500	3364
55°	3176	2960	2846
60°	2766	2369	2540
65°	2388	1837	2246
70°	2179	1502	2174
75°	2196	1619	2309
80°	2287	2109	2435
85°	2384	2509	2697



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	359.8	4.1
10°-20°	1031.9	11.9
20°-30°	1544.6	17.8
30°-40°	1764.9	20.3
40°-50°	1595.7	18.4
50°-60°	1148.0	13.2
60°-70°	665.5	7.7
70°-80°	394.8	4.5
80°-90°	174.9	2.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2936.2	33.8
0°-40°	4701.2	54.2
0°-60°	7444.8	85.8
0°-90°	8680.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8680.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3793	3793	3793	3793	3793	
5°	3792	3786	3783	3778	3790	360
15°	3653	3660	3660	3656	3670	1031
25°	3366	3362	3360	3353	3362	1548
35°	2854	2841	2846	2811	2836	1780
45°	2123	2087	2065	2046	2027	1631
55°	1354	1328	1262	1230	1213	1211
65°	750	666	577	645	706	757
75°	422	353	311	385	444	447
85°	154	167	162	187	175	165
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3792.9	3792.9	3792.9	3792.9	3792.9
2.5°	3803.7	3790.2	3796.9	3792.9	3791.5
5°	3791.5	3786.1	3783.4	3778.0	3790.2
7.5°	3767.1	3763.1	3764.4	3765.8	3773.9
10°	3742.8	3736.0	3737.3	3740.0	3744.1
12.5°	3704.8	3700.8	3702.1	3704.8	3714.3
15°	3653.4	3660.2	3660.2	3656.1	3669.6
17.5°	3601.9	3600.6	3607.3	3595.2	3614.1
20°	3530.2	3531.5	3530.2	3531.5	3543.7
22.5°	3448.9	3455.7	3451.6	3451.6	3465.2
25°	3366.3	3362.3	3359.5	3352.8	3362.3
27.5°	3267.5	3259.3	3252.6	3239.0	3245.8
30°	3141.5	3142.9	3125.3	3113.1	3110.4
32.5°	3000.7	3000.7	2984.5	2975.0	2983.1
35°	2854.5	2840.9	2846.3	2811.1	2835.5
37.5°	2696.0	2674.4	2662.2	2650.0	2658.1
40°	2514.6	2486.1	2468.5	2444.2	2457.7
42.5°	2323.7	2288.4	2266.8	2249.2	2254.6
45°	2123.2	2086.7	2065.0	2046.1	2027.1
47.5°	1912.0	1889.0	1878.1	1853.8	1832.1
50°	1706.2	1698.1	1672.3	1652.0	1607.3
52.5°	1518.0	1511.2	1470.6	1436.7	1379.8
55°	1354.1	1328.4	1262.0	1229.5	1213.3
57.5°	1187.6	1145.6	1065.7	1061.6	1072.5
60°	1027.8	976.3	880.2	901.8	943.8
62.5°	882.9	805.7	713.6	765.1	815.2
65°	750.2	666.2	576.9	644.6	705.5
67.5°	640.5	556.5	464.5	555.2	625.6
70°	553.8	468.5	381.9	486.1	552.5
72.5°	482.1	404.9	333.1	432.0	501.0
75°	422.5	353.4	311.4	384.6	444.1
77.5°	362.9	307.4	297.9	342.6	379.2
80°	295.2	269.5	272.2	300.6	314.2
82.5°	220.7	222.1	228.8	251.9	246.4
85°	154.4	166.6	162.5	186.9	174.7
87.5°	85.3	93.4	88.0	107.0	96.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)