

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: P293789

Luminaire Tested: **24GR-LD5-85-A125-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P293789  
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-5700K  
Description: GRLED 2x4 TUNABLE WHITE TROFFER  
WITH A125 LENS  
Light Source: (336) 80 CRI LEDS TUNED TO 5700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8658.0 lumens  
Efficiency: N/A  
Efficacy: 134.9 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

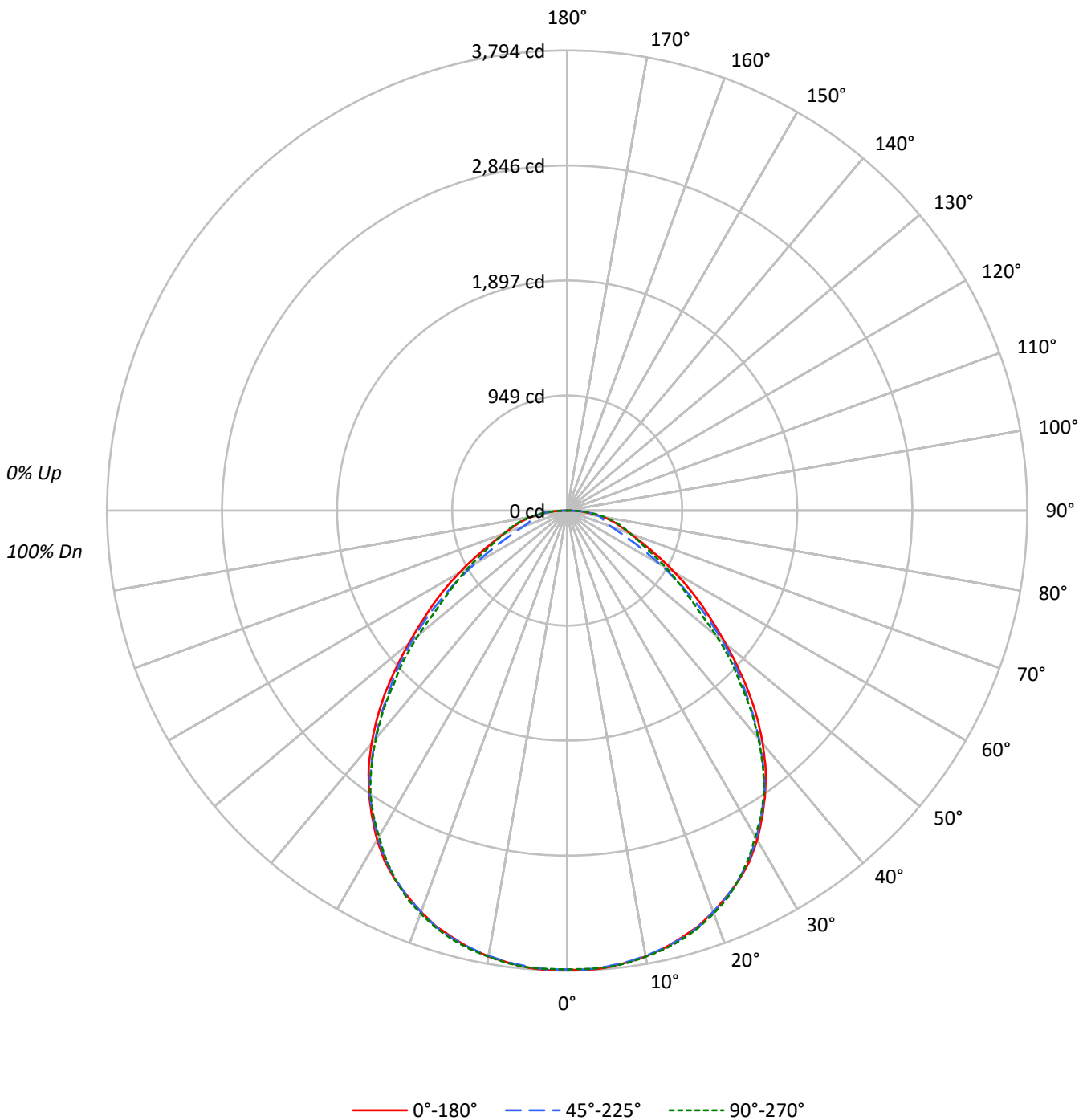
Input Watts (W): 64.17  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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

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

	0°	45°	90°
0°	5090	5090	5090
5°	5108	5097	5106
10°	5101	5093	5102
15°	5076	5086	5099
20°	5042	5042	5061
25°	4985	4975	4979
30°	4868	4843	4820
35°	4677	4663	4646
40°	4405	4325	4306
45°	4030	3919	3847
50°	3562	3492	3356
55°	3168	2953	2839
60°	2759	2362	2533
65°	2382	1832	2240
70°	2173	1498	2168
75°	2191	1615	2303
80°	2281	2104	2428
85°	2377	2502	2689



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	358.9	4.1
10°-20°	1029.3	11.9
20°-30°	1540.7	17.8
30°-40°	1760.5	20.3
40°-50°	1591.6	18.4
50°-60°	1145.1	13.2
60°-70°	663.8	7.7
70°-80°	393.8	4.5
80°-90°	174.4	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°	2928.8	33.8
0°-40°	4689.2	54.2
0°-60°	7426.0	85.8
0°-90°	8658.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8658.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3783	3783	3783	3783	3783	
5°	3782	3776	3774	3768	3780	359
15°	3644	3651	3651	3647	3660	1029
25°	3358	3354	3351	3344	3354	1544
35°	2847	2834	2839	2804	2828	1775
45°	2118	2081	2060	2041	2022	1627
55°	1351	1325	1259	1226	1210	1208
65°	748	664	575	643	704	755
75°	421	352	311	384	443	445
85°	154	166	162	186	174	165
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3783.2	3783.2	3783.2	3783.2	3783.2
2.5°	3794.1	3780.5	3787.3	3783.2	3781.9
5°	3781.9	3776.5	3773.8	3768.4	3780.5
7.5°	3757.6	3753.5	3754.9	3756.2	3764.3
10°	3733.3	3726.5	3727.9	3730.6	3734.6
12.5°	3695.5	3691.4	3692.7	3695.5	3704.9
15°	3644.1	3650.9	3650.9	3646.8	3660.3
17.5°	3592.8	3591.4	3598.2	3586.0	3605.0
20°	3521.2	3522.6	3521.2	3522.6	3534.7
22.5°	3440.2	3446.9	3442.9	3442.9	3456.4
25°	3357.8	3353.7	3351.0	3344.3	3353.7
27.5°	3259.2	3251.1	3244.3	3230.8	3237.6
30°	3133.6	3134.9	3117.4	3105.2	3102.5
32.5°	2993.1	2993.1	2976.9	2967.4	2975.5
35°	2847.2	2833.7	2839.1	2804.0	2828.3
37.5°	2689.2	2667.6	2655.4	2643.3	2651.4
40°	2508.2	2479.8	2462.3	2438.0	2451.5
42.5°	2317.8	2282.6	2261.0	2243.5	2248.9
45°	2117.9	2081.4	2059.8	2040.9	2022.0
47.5°	1907.2	1884.2	1873.4	1849.1	1827.5
50°	1701.9	1693.7	1668.1	1647.8	1603.3
52.5°	1514.1	1507.4	1466.8	1433.1	1376.3
55°	1350.7	1325.0	1258.8	1226.4	1210.2
57.5°	1184.5	1142.7	1063.0	1058.9	1069.7
60°	1025.2	973.8	877.9	899.6	941.4
62.5°	880.6	803.7	711.8	763.1	813.1
65°	748.3	664.5	575.4	642.9	703.7
67.5°	638.9	555.1	463.3	553.8	624.0
70°	552.4	467.3	380.9	484.9	551.1
72.5°	480.8	403.9	332.3	430.9	499.8
75°	421.4	352.5	310.7	383.6	443.0
77.5°	362.0	306.6	297.1	341.7	378.2
80°	294.4	268.8	271.5	299.9	313.4
82.5°	220.2	221.5	228.3	251.2	245.8
85°	154.0	166.1	162.1	186.4	174.2
87.5°	85.1	93.2	87.8	106.7	95.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)