

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: P293905

Luminaire Tested: **24GR-LD5-72-A125-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P293905  
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-LD5-72-A125-UNV-L92765-W2A1-U-5500K  
Description: GRLED 2x4 TUNABLE WHITE TROFFER  
WITH A125 LENS  
Light Source: (336) 90 CRI LEDS TUNED TO 5500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6799.0 lumens  
Efficiency: N/A  
Efficacy: 125.8 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

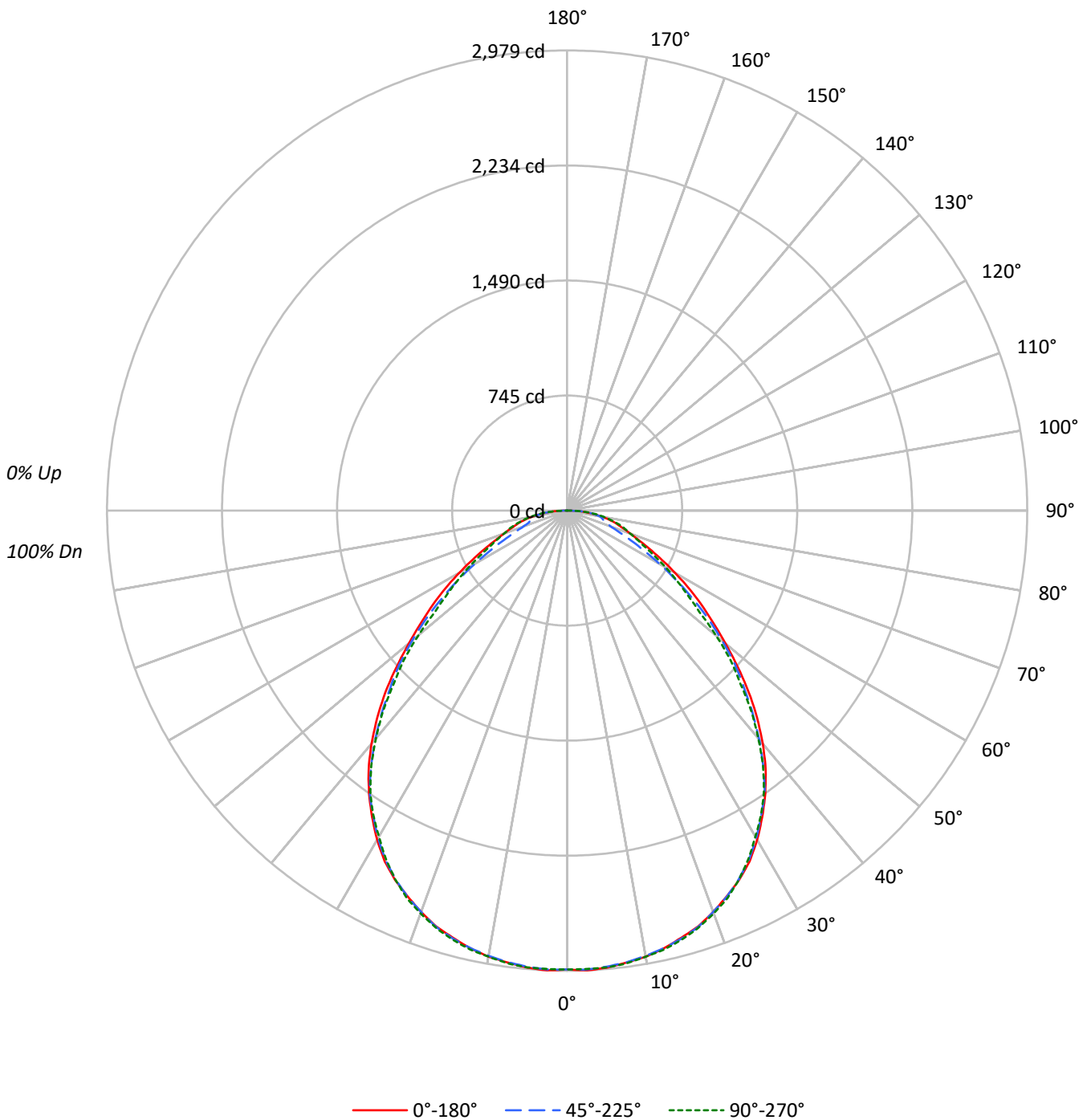
Input Watts (W): 54.033  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	3997	3997	3997
5°	4011	4003	4010
10°	4005	4000	4007
15°	3986	3994	4004
20°	3959	3959	3975
25°	3915	3907	3910
30°	3823	3803	3785
35°	3673	3662	3648
40°	3460	3396	3381
45°	3165	3078	3021
50°	2797	2742	2635
55°	2488	2319	2229
60°	2166	1855	1989
65°	1871	1438	1759
70°	1707	1177	1703
75°	1720	1268	1809
80°	1791	1652	1907
85°	1866	1965	2112



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	281.8	4.1
10°-20°	808.3	11.9
20°-30°	1209.8	17.8
30°-40°	1382.5	20.3
40°-50°	1249.9	18.4
50°-60°	899.2	13.2
60°-70°	521.3	7.7
70°-80°	309.2	4.5
80°-90°	137.0	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°	2299.9	33.8
0°-40°	3682.4	54.2
0°-60°	5831.5	85.8
0°-90°	6799.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6799.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2971	2971	2971	2971	2971	
5°	2970	2966	2964	2959	2969	282
15°	2862	2867	2867	2864	2874	808
25°	2637	2634	2632	2626	2634	1212
35°	2236	2225	2230	2202	2221	1394
45°	1663	1634	1618	1603	1588	1278
55°	1061	1040	988	963	950	949
65°	588	522	452	505	553	593
75°	331	277	244	301	348	350
85°	121	130	127	146	137	130
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2970.9	2970.9	2970.9	2970.9	2970.9
2.5°	2979.4	2968.8	2974.1	2970.9	2969.9
5°	2969.9	2965.6	2963.5	2959.3	2968.8
7.5°	2950.8	2947.6	2948.7	2949.7	2956.1
10°	2931.7	2926.4	2927.4	2929.6	2932.7
12.5°	2902.0	2898.8	2899.9	2902.0	2909.4
15°	2861.7	2867.0	2867.0	2863.8	2874.4
17.5°	2821.4	2820.3	2825.6	2816.1	2830.9
20°	2765.2	2766.2	2765.2	2766.2	2775.8
22.5°	2701.5	2706.8	2703.6	2703.6	2714.2
25°	2636.8	2633.6	2631.5	2626.2	2633.6
27.5°	2559.4	2553.0	2547.7	2537.1	2542.4
30°	2460.7	2461.8	2448.0	2438.5	2436.4
32.5°	2350.4	2350.4	2337.7	2330.3	2336.6
35°	2235.9	2225.3	2229.5	2201.9	2221.0
37.5°	2111.8	2094.8	2085.3	2075.7	2082.1
40°	1969.7	1947.4	1933.6	1914.5	1925.1
42.5°	1820.1	1792.5	1775.6	1761.8	1766.0
45°	1663.1	1634.5	1617.5	1602.7	1587.8
47.5°	1497.7	1479.6	1471.1	1452.1	1435.1
50°	1336.4	1330.1	1309.9	1294.0	1259.0
52.5°	1189.0	1183.7	1151.9	1125.4	1080.8
55°	1060.7	1040.5	988.5	963.1	950.4
57.5°	930.2	897.3	834.7	831.6	840.0
60°	805.0	764.7	689.4	706.4	739.3
62.5°	691.6	631.1	559.0	599.3	638.5
65°	587.6	521.8	451.8	504.9	552.6
67.5°	501.7	435.9	363.8	434.9	490.0
70°	433.8	367.0	299.1	380.8	432.8
72.5°	377.6	317.1	260.9	338.4	392.4
75°	330.9	276.8	244.0	301.2	347.9
77.5°	284.3	240.8	233.3	268.3	297.0
80°	231.2	211.1	213.2	235.5	246.1
82.5°	172.9	173.9	179.3	197.3	193.0
85°	120.9	130.5	127.3	146.4	136.8
87.5°	66.8	73.2	68.9	83.8	75.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)