

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: P293894

Luminaire Tested: **24GR-LD5-64-A125-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P293894  
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-LD5-64-A125-UNV-L92765-W2A1-U-4500K  
Description: GRLED 2x4 TUNABLE WHITE TROFFER  
WITH A125 LENS  
Light Source: (336) 90 CRI LEDS TUNED TO 4500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5809.0 lumens  
Efficiency: N/A  
Efficacy: 124.2 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

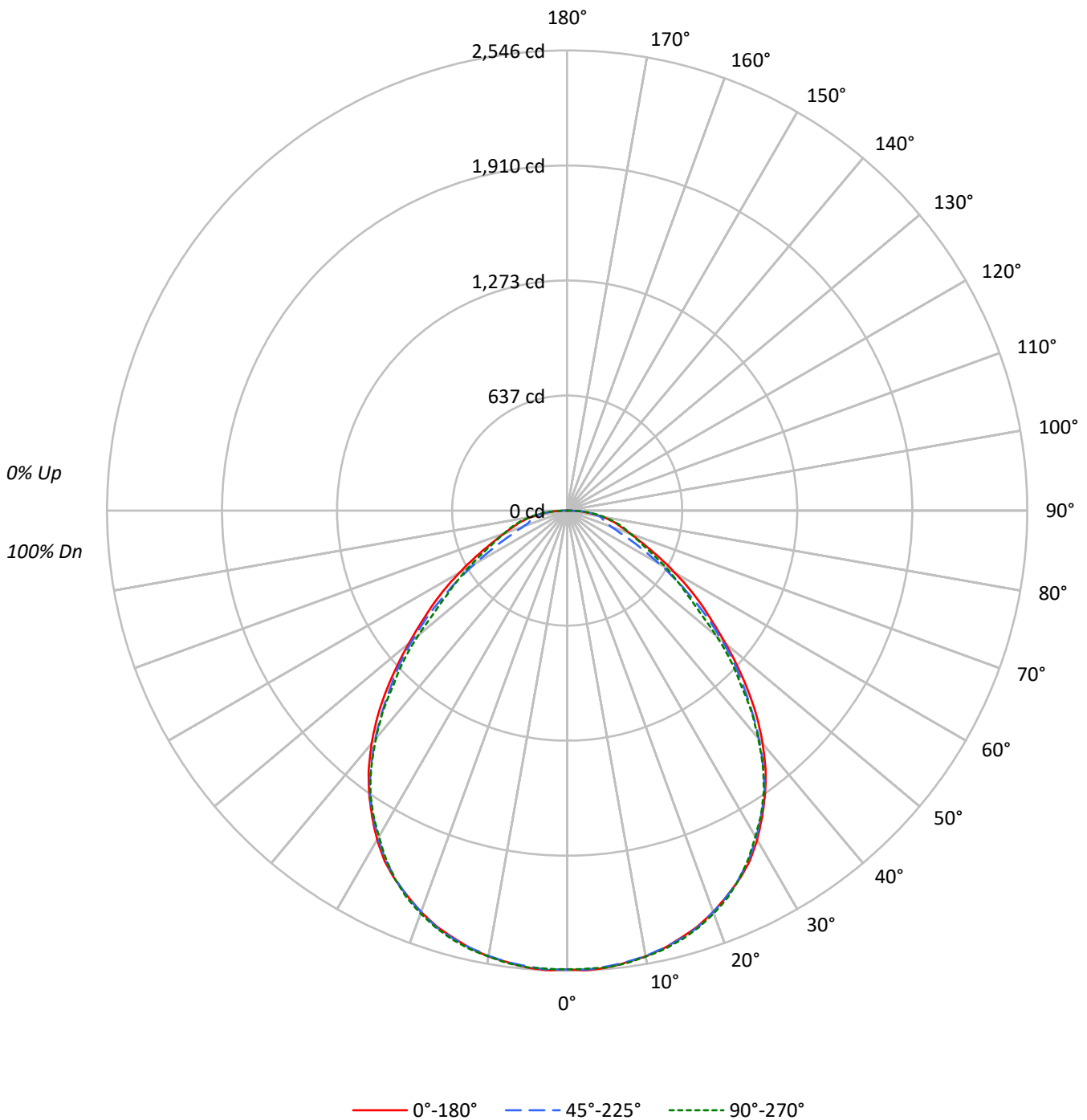
Input Watts (W): 46.779  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	3415	3415	3415
5°	3427	3420	3426
10°	3422	3417	3423
15°	3406	3412	3421
20°	3383	3383	3396
25°	3345	3338	3341
30°	3266	3250	3234
35°	3138	3129	3117
40°	2956	2902	2889
45°	2704	2630	2581
50°	2390	2343	2252
55°	2126	1981	1905
60°	1851	1585	1700
65°	1598	1229	1503
70°	1458	1006	1454
75°	1470	1083	1545
80°	1531	1412	1629
85°	1595	1678	1805



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	240.8	4.1
10°-20°	690.6	11.9
20°-30°	1033.7	17.8
30°-40°	1181.2	20.3
40°-50°	1067.9	18.4
50°-60°	768.3	13.2
60°-70°	445.4	7.7
70°-80°	264.2	4.5
80°-90°	117.0	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°	1965.0	33.8
0°-40°	3146.2	54.2
0°-60°	4982.4	85.8
0°-90°	5809.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5809.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2538	2538	2538	2538	2538	
5°	2537	2534	2532	2528	2536	241
15°	2445	2450	2450	2447	2456	690
25°	2253	2250	2248	2244	2250	1036
35°	1910	1901	1905	1881	1898	1191
45°	1421	1396	1382	1369	1357	1092
55°	906	889	845	823	812	811
65°	502	446	386	431	472	507
75°	283	236	208	257	297	299
85°	103	112	109	125	117	111
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2538.3	2538.3	2538.3	2538.3	2538.3
2.5°	2545.6	2536.5	2541.0	2538.3	2537.4
5°	2537.4	2533.8	2532.0	2528.4	2536.5
7.5°	2521.1	2518.4	2519.3	2520.2	2525.6
10°	2504.8	2500.3	2501.2	2503.0	2505.7
12.5°	2479.4	2476.7	2477.6	2479.4	2485.8
15°	2445.0	2449.5	2449.5	2446.8	2455.9
17.5°	2410.6	2409.6	2414.2	2406.0	2418.7
20°	2362.5	2363.4	2362.5	2363.4	2371.6
22.5°	2308.2	2312.7	2310.0	2310.0	2319.0
25°	2252.9	2250.2	2248.3	2243.8	2250.2
27.5°	2186.7	2181.3	2176.7	2167.7	2172.2
30°	2102.4	2103.3	2091.6	2083.4	2081.6
32.5°	2008.2	2008.2	1997.3	1991.0	1996.4
35°	1910.3	1901.3	1904.9	1881.3	1897.6
37.5°	1804.3	1789.8	1781.6	1773.5	1778.9
40°	1682.9	1663.8	1652.0	1635.7	1644.8
42.5°	1555.1	1531.5	1517.0	1505.2	1508.9
45°	1421.0	1396.5	1382.0	1369.3	1356.6
47.5°	1279.6	1264.2	1256.9	1240.6	1226.1
50°	1141.8	1136.4	1119.2	1105.6	1075.7
52.5°	1015.9	1011.3	984.2	961.5	923.4
55°	906.2	889.0	844.6	822.9	812.0
57.5°	794.8	766.7	713.2	710.5	717.7
60°	687.8	653.4	589.0	603.5	631.6
62.5°	590.9	539.2	477.6	512.0	545.5
65°	502.0	445.9	386.1	431.4	472.1
67.5°	428.6	372.5	310.8	371.6	418.7
70°	370.6	313.6	255.6	325.3	369.7
72.5°	322.6	271.0	222.9	289.1	335.3
75°	282.7	236.5	208.4	257.4	297.2
77.5°	242.9	205.7	199.4	229.3	253.7
80°	197.6	180.3	182.2	201.2	210.2
82.5°	147.7	148.6	153.2	168.6	164.9
85°	103.3	111.5	108.7	125.1	116.9
87.5°	57.1	62.5	58.9	71.6	64.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)