

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: P293813

Luminaire Tested: **24GR-LD5-48-A125-UNV-L93050-W2A1-U-4000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P293813  
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-LD5-48-A125-UNV-L93050-W2A1-U-4000K  
Description: GRLED 2x4 TUNABLE WHITE TROFFER  
WITH A125 LENS  
Light Source: (336) 90 CRI LEDS TUNED TO 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4459.0 lumens  
Efficiency: N/A  
Efficacy: 132.4 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

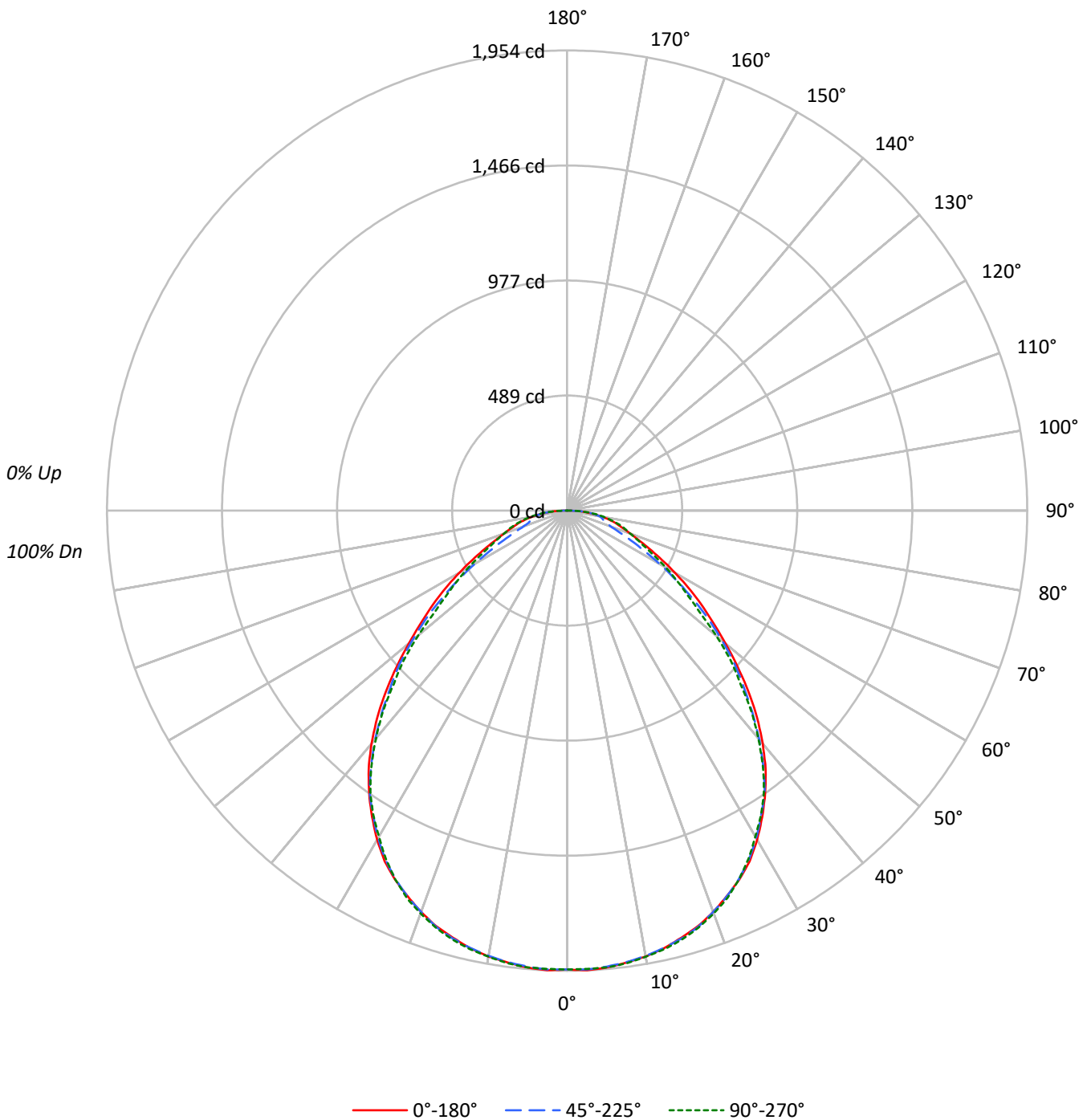
Input Watts (W): 33.682554  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2622	2622	2622
5°	2631	2625	2630
10°	2627	2623	2628
15°	2614	2619	2626
20°	2597	2597	2607
25°	2567	2562	2564
30°	2507	2494	2482
35°	2409	2402	2393
40°	2269	2227	2217
45°	2075	2019	1981
50°	1835	1798	1728
55°	1632	1521	1462
60°	1421	1217	1305
65°	1227	943	1154
70°	1119	772	1116
75°	1128	832	1186
80°	1175	1083	1251
85°	1224	1289	1385



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	184.8	4.1
10°-20°	530.1	11.9
20°-30°	793.5	17.8
30°-40°	906.7	20.3
40°-50°	819.7	18.4
50°-60°	589.7	13.2
60°-70°	341.9	7.7
70°-80°	202.8	4.5
80°-90°	89.8	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°	1508.4	33.8
0°-40°	2415.0	54.2
0°-60°	3824.5	85.8
0°-90°	4459.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4459.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1948	1948	1948	1948	1948	
5°	1948	1945	1944	1941	1947	185
15°	1877	1880	1880	1878	1885	530
25°	1729	1727	1726	1722	1727	795
35°	1466	1459	1462	1444	1457	914
45°	1091	1072	1061	1051	1041	838
55°	696	682	648	632	623	622
65°	385	342	296	331	362	389
75°	217	182	160	198	228	229
85°	79	86	84	96	90	85
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1948.4	1948.4	1948.4	1948.4	1948.4
2.5°	1954.0	1947.0	1950.5	1948.4	1947.7
5°	1947.7	1944.9	1943.6	1940.8	1947.0
7.5°	1935.2	1933.1	1933.8	1934.5	1938.7
10°	1922.7	1919.2	1919.9	1921.3	1923.4
12.5°	1903.2	1901.1	1901.8	1903.2	1908.1
15°	1876.8	1880.3	1880.3	1878.2	1885.1
17.5°	1850.3	1849.7	1853.1	1846.9	1856.6
20°	1813.5	1814.2	1813.5	1814.2	1820.4
22.5°	1771.7	1775.2	1773.1	1773.1	1780.1
25°	1729.3	1727.2	1725.8	1722.4	1727.2
27.5°	1678.5	1674.4	1670.9	1663.9	1667.4
30°	1613.8	1614.5	1605.5	1599.2	1597.8
32.5°	1541.5	1541.5	1533.1	1528.3	1532.4
35°	1466.4	1459.4	1462.2	1444.1	1456.6
37.5°	1385.0	1373.8	1367.6	1361.3	1365.5
40°	1291.8	1277.2	1268.1	1255.6	1262.5
42.5°	1193.7	1175.6	1164.5	1155.4	1158.2
45°	1090.7	1071.9	1060.8	1051.1	1041.3
47.5°	982.2	970.4	964.8	952.3	941.2
50°	876.5	872.3	859.1	848.7	825.7
52.5°	779.8	776.3	755.4	738.1	708.8
55°	695.6	682.4	648.3	631.6	623.3
57.5°	610.1	588.5	547.5	545.4	550.9
60°	528.0	501.5	452.2	463.3	484.8
62.5°	453.5	413.9	366.6	393.0	418.8
65°	385.4	342.2	296.3	331.1	362.4
67.5°	329.0	285.9	238.6	285.2	321.4
70°	284.5	240.7	196.2	249.7	283.8
72.5°	247.6	208.0	171.1	221.9	257.4
75°	217.0	181.6	160.0	197.6	228.2
77.5°	186.4	157.9	153.0	176.0	194.8
80°	151.6	138.4	139.8	154.4	161.4
82.5°	113.4	114.1	117.6	129.4	126.6
85°	79.3	85.6	83.5	96.0	89.7
87.5°	43.8	48.0	45.2	55.0	49.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)