

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: P293883

Luminaire Tested: **24GR-LD5-56-A125-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P293883  
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-LD5-56-A125-UNV-L92765-W2A1-U-3500K  
Description: GRLED 2x4 TUNABLE WHITE TROFFER  
WITH A125 LENS  
Light Source: (336) 90 CRI LEDS TUNED TO 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4830.0 lumens  
Efficiency: N/A  
Efficacy: 123.7 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

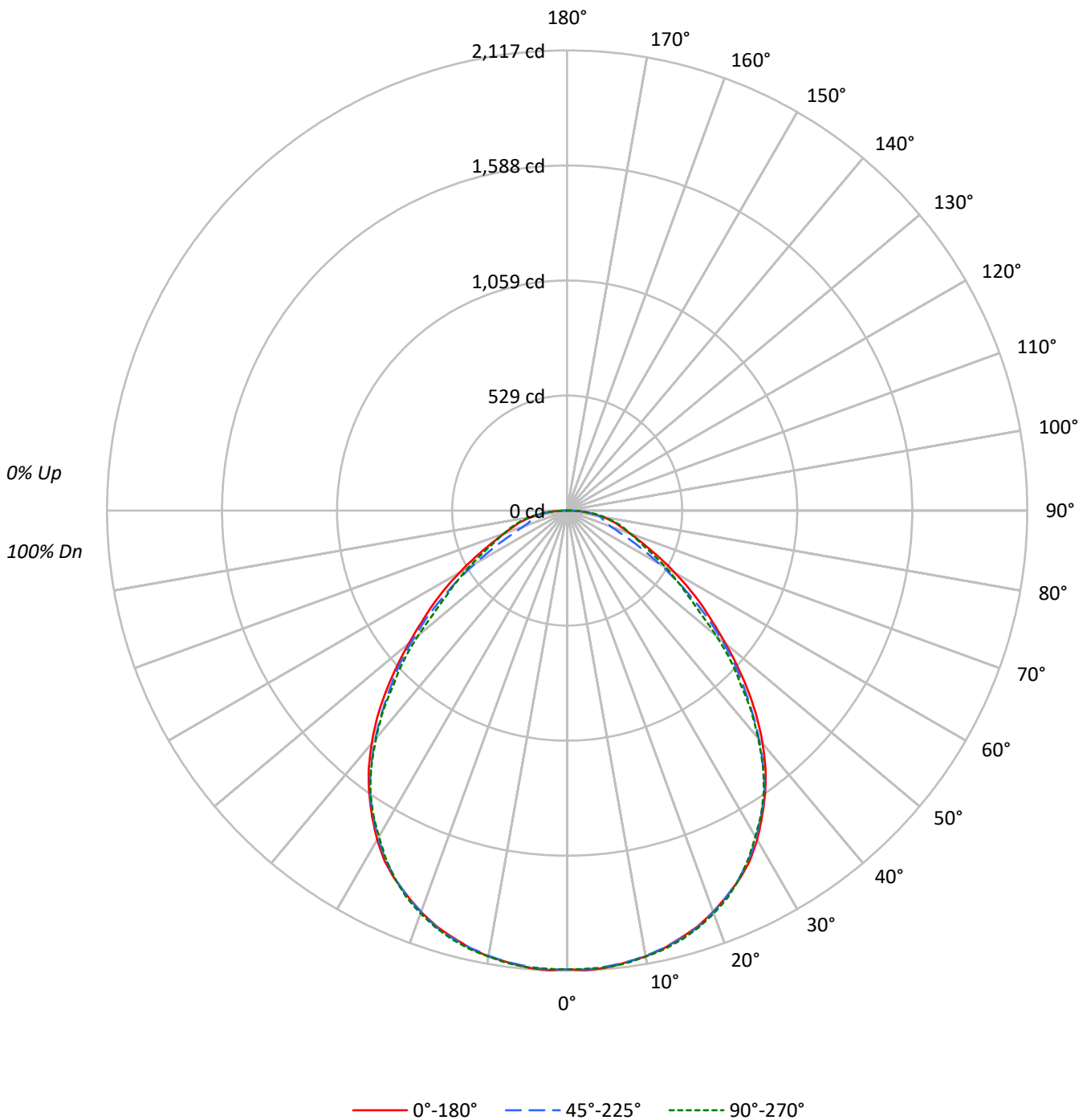
Input Watts (W): 39.06  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2840	2840	2840
5°	2850	2843	2848
10°	2845	2841	2846
15°	2832	2837	2844
20°	2813	2813	2823
25°	2781	2775	2778
30°	2716	2702	2689
35°	2609	2601	2592
40°	2458	2413	2402
45°	2248	2187	2146
50°	1987	1948	1872
55°	1768	1647	1584
60°	1539	1318	1413
65°	1329	1022	1250
70°	1212	836	1209
75°	1222	901	1285
80°	1273	1174	1354
85°	1326	1396	1501



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	200.2	4.1
10°-20°	574.2	11.9
20°-30°	859.5	17.8
30°-40°	982.1	20.3
40°-50°	887.9	18.4
50°-60°	638.8	13.2
60°-70°	370.3	7.7
70°-80°	219.7	4.5
80°-90°	97.3	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°	1633.9	33.8
0°-40°	2616.0	54.2
0°-60°	4142.7	85.8
0°-90°	4830.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4830.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2110	2110	2110	2110	2110	
5°	2110	2107	2105	2102	2109	200
15°	2033	2037	2037	2034	2042	574
25°	1873	1871	1869	1866	1871	861
35°	1588	1581	1584	1564	1578	990
45°	1182	1161	1149	1138	1128	908
55°	754	739	702	684	675	674
65°	417	371	321	359	393	421
75°	235	197	173	214	247	248
85°	86	93	90	104	97	92
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2110.5	2110.5	2110.5	2110.5	2110.5
2.5°	2116.6	2109.0	2112.8	2110.5	2109.8
5°	2109.8	2106.8	2105.3	2102.3	2109.0
7.5°	2096.2	2094.0	2094.7	2095.5	2100.0
10°	2082.7	2078.9	2079.6	2081.2	2083.4
12.5°	2061.6	2059.3	2060.1	2061.6	2066.8
15°	2032.9	2036.7	2036.7	2034.4	2042.0
17.5°	2004.3	2003.5	2007.3	2000.5	2011.1
20°	1964.4	1965.1	1964.4	1965.1	1971.9
22.5°	1919.2	1922.9	1920.7	1920.7	1928.2
25°	1873.2	1870.9	1869.4	1865.7	1870.9
27.5°	1818.2	1813.7	1809.9	1802.4	1806.1
30°	1748.1	1748.9	1739.1	1732.3	1730.8
32.5°	1669.7	1669.7	1660.7	1655.4	1660.0
35°	1588.4	1580.8	1583.8	1564.3	1577.8
37.5°	1500.2	1488.2	1481.4	1474.6	1479.1
40°	1399.2	1383.4	1373.6	1360.1	1367.6
42.5°	1293.0	1273.4	1261.4	1251.6	1254.6
45°	1181.5	1161.1	1149.1	1138.5	1128.0
47.5°	1063.9	1051.1	1045.1	1031.5	1019.5
50°	949.4	944.9	930.6	919.3	894.4
52.5°	844.7	840.9	818.3	799.5	767.8
55°	753.5	739.2	702.3	684.2	675.1
57.5°	660.8	637.5	593.0	590.7	596.8
60°	571.9	543.3	489.8	501.8	525.2
62.5°	491.3	448.3	397.1	425.7	453.6
65°	417.4	370.7	321.0	358.7	392.6
67.5°	356.4	309.7	258.4	308.9	348.1
70°	308.2	260.7	212.5	270.5	307.4
72.5°	268.2	225.3	185.4	240.4	278.8
75°	235.1	196.7	173.3	214.0	247.1
77.5°	201.9	171.0	165.8	190.6	211.0
80°	164.3	149.9	151.5	167.3	174.8
82.5°	122.8	123.6	127.3	140.2	137.1
85°	85.9	92.7	90.4	104.0	97.2
87.5°	47.5	52.0	49.0	59.5	53.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)