

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: P293858

Luminaire Tested: **24GR-LD5-38-A125-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P293858  
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-LD5-38-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: 3493.0 lumens  
Efficiency: N/A  
Efficacy: 135.1 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

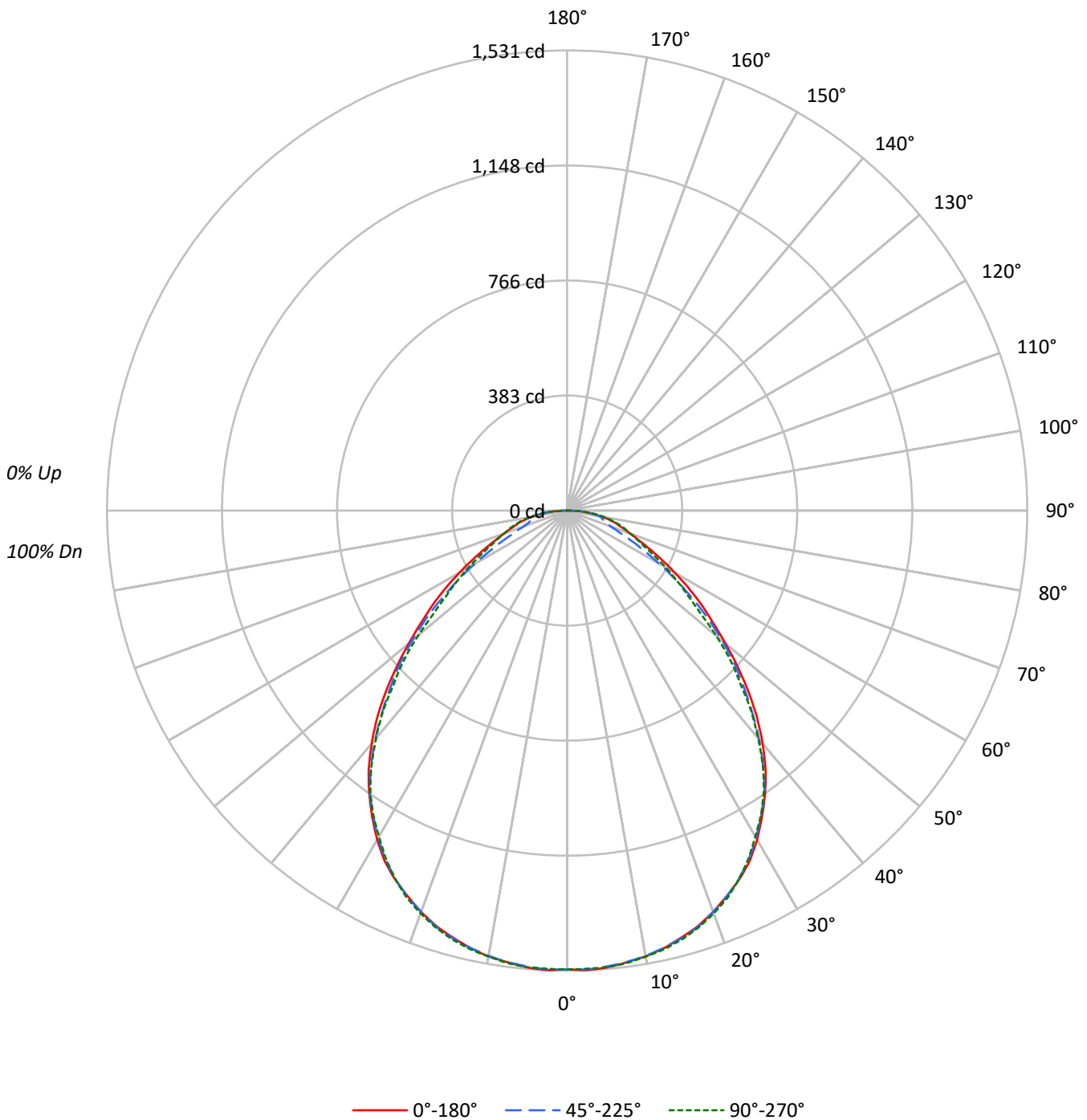
Input Watts (W): 25.854  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2054	2054	2054
5°	2061	2056	2060
10°	2058	2055	2059
15°	2048	2052	2057
20°	2034	2034	2042
25°	2011	2007	2009
30°	1964	1954	1945
35°	1887	1881	1874
40°	1777	1745	1737
45°	1626	1581	1552
50°	1437	1409	1354
55°	1278	1191	1145
60°	1113	953	1022
65°	961	739	904
70°	877	605	875
75°	884	651	929
80°	921	848	979
85°	959	1010	1085



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	144.8	4.1
10°-20°	415.2	11.9
20°-30°	621.6	17.8
30°-40°	710.2	20.3
40°-50°	642.1	18.4
50°-60°	462.0	13.2
60°-70°	267.8	7.7
70°-80°	158.9	4.5
80°-90°	70.4	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°	1181.6	33.8
0°-40°	1891.8	54.2
0°-60°	2996.0	85.8
0°-90°	3493.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3493.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1526	1526	1526	1526	1526	
5°	1526	1524	1522	1520	1525	145
15°	1470	1473	1473	1471	1477	415
25°	1355	1353	1352	1349	1353	623
35°	1149	1143	1145	1131	1141	716
45°	854	840	831	823	816	656
55°	545	535	508	495	488	487
65°	302	268	232	259	284	305
75°	170	142	125	155	179	180
85°	62	67	65	75	70	67
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1526.3	1526.3	1526.3	1526.3	1526.3
2.5°	1530.7	1525.2	1528.0	1526.3	1525.8
5°	1525.8	1523.6	1522.5	1520.3	1525.2
7.5°	1516.0	1514.3	1514.9	1515.4	1518.7
10°	1506.2	1503.4	1504.0	1505.1	1506.7
12.5°	1490.9	1489.3	1489.8	1490.9	1494.7
15°	1470.2	1472.9	1472.9	1471.3	1476.7
17.5°	1449.5	1448.9	1451.7	1446.8	1454.4
20°	1420.6	1421.2	1420.6	1421.2	1426.1
22.5°	1387.9	1390.6	1389.0	1389.0	1394.4
25°	1354.7	1353.0	1351.9	1349.2	1353.0
27.5°	1314.9	1311.6	1308.9	1303.4	1306.2
30°	1264.2	1264.8	1257.7	1252.8	1251.7
32.5°	1207.5	1207.5	1201.0	1197.2	1200.5
35°	1148.7	1143.2	1145.4	1131.3	1141.1
37.5°	1084.9	1076.2	1071.3	1066.4	1069.7
40°	1011.9	1000.5	993.4	983.6	989.0
42.5°	935.1	920.9	912.2	905.1	907.3
45°	854.4	839.7	831.0	823.4	815.7
47.5°	769.4	760.2	755.8	746.0	737.3
50°	686.6	683.3	673.0	664.8	646.8
52.5°	610.9	608.1	591.8	578.2	555.3
55°	544.9	534.6	507.9	494.8	488.2
57.5°	477.9	461.0	428.9	427.2	431.6
60°	413.6	392.9	354.2	362.9	379.8
62.5°	355.3	324.2	287.2	307.9	328.0
65°	301.9	268.1	232.1	259.4	283.9
67.5°	257.7	224.0	186.9	223.4	251.8
70°	222.9	188.5	153.7	195.6	222.3
72.5°	194.0	162.9	134.1	173.8	201.6
75°	170.0	142.2	125.3	154.8	178.7
77.5°	146.0	123.7	119.9	137.9	152.6
80°	118.8	108.4	109.5	121.0	126.4
82.5°	88.8	89.4	92.1	101.4	99.2
85°	62.1	67.0	65.4	75.2	70.3
87.5°	34.3	37.6	35.4	43.0	38.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)