

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: P293728

Luminaire Tested: **24GR-LD5-38-A125-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P293728  
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-L82765-W2A1-U-2700K  
Description: GRLED 2x4 TUNABLE WHITE TROFFER  
WITH A125 LENS  
Light Source: (336) 80 CRI LEDS TUNED TO 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3538.0 lumens  
Efficiency: N/A  
Efficacy: 139.4 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

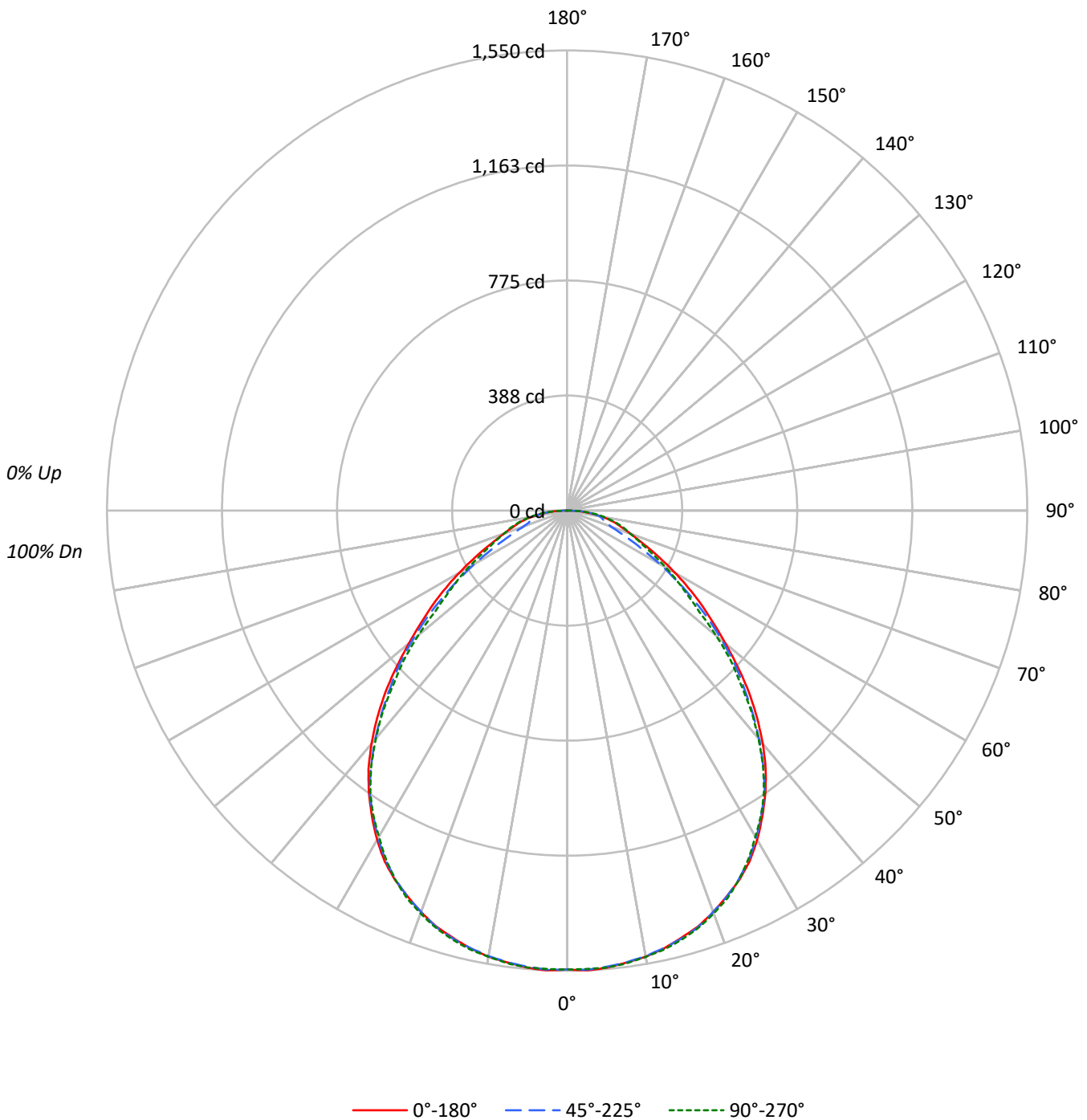
Input Watts (W): 25.389  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2080	2080	2080
5°	2087	2083	2087
10°	2084	2081	2085
15°	2074	2078	2084
20°	2060	2060	2068
25°	2037	2033	2035
30°	1989	1979	1970
35°	1911	1906	1898
40°	1800	1767	1760
45°	1647	1602	1572
50°	1456	1427	1371
55°	1295	1207	1160
60°	1127	966	1035
65°	974	748	916
70°	888	612	886
75°	895	660	941
80°	932	859	993
85°	971	1022	1099



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	146.7	4.1
10°-20°	420.6	11.9
20°-30°	629.6	17.8
30°-40°	719.4	20.3
40°-50°	650.4	18.4
50°-60°	467.9	13.2
60°-70°	271.3	7.7
70°-80°	160.9	4.5
80°-90°	71.3	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°	1196.8	33.8
0°-40°	1916.2	54.2
0°-60°	3034.6	85.8
0°-90°	3538.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3538.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1546	1546	1546	1546	1546	
5°	1545	1543	1542	1540	1545	147
15°	1489	1492	1492	1490	1496	420
25°	1372	1370	1369	1367	1370	631
35°	1164	1158	1160	1146	1156	725
45°	865	850	842	834	826	665
55°	552	542	514	501	494	494
65°	306	272	235	263	288	309
75°	172	144	127	157	181	182
85°	63	68	66	76	71	67
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1546.0	1546.0	1546.0	1546.0	1546.0
2.5°	1550.4	1544.9	1547.6	1546.0	1545.4
5°	1545.4	1543.2	1542.1	1539.9	1544.9
7.5°	1535.5	1533.8	1534.4	1534.9	1538.3
10°	1525.6	1522.8	1523.4	1524.5	1526.1
12.5°	1510.1	1508.5	1509.0	1510.1	1514.0
15°	1489.1	1491.9	1491.9	1490.2	1495.8
17.5°	1468.2	1467.6	1470.4	1465.4	1473.1
20°	1438.9	1439.5	1438.9	1439.5	1444.4
22.5°	1405.8	1408.6	1406.9	1406.9	1412.4
25°	1372.1	1370.5	1369.4	1366.6	1370.5
27.5°	1331.8	1328.5	1325.8	1320.2	1323.0
30°	1280.5	1281.1	1273.9	1268.9	1267.8
32.5°	1223.1	1223.1	1216.5	1212.6	1215.9
35°	1163.5	1158.0	1160.2	1145.8	1155.8
37.5°	1098.9	1090.1	1085.1	1080.1	1083.5
40°	1025.0	1013.4	1006.2	996.3	1001.8
42.5°	947.1	932.8	923.9	916.8	919.0
45°	865.4	850.5	841.7	834.0	826.3
47.5°	779.3	770.0	765.5	755.6	746.8
50°	695.4	692.1	681.6	673.4	655.2
52.5°	618.7	616.0	599.4	585.6	562.4
55°	551.9	541.5	514.4	501.2	494.5
57.5°	484.1	466.9	434.4	432.7	437.1
60°	418.9	397.9	358.8	367.6	384.7
62.5°	359.9	328.4	290.9	311.8	332.3
65°	305.8	271.6	235.1	262.7	287.6
67.5°	261.1	226.8	189.3	226.3	255.0
70°	225.7	191.0	155.6	198.1	225.2
72.5°	196.5	165.0	135.8	176.1	204.2
75°	172.2	144.1	126.9	156.8	181.0
77.5°	147.9	125.3	121.4	139.6	154.5
80°	120.3	109.8	110.9	122.5	128.1
82.5°	90.0	90.5	93.3	102.7	100.5
85°	62.9	67.9	66.2	76.2	71.2
87.5°	34.8	38.1	35.9	43.6	39.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)