

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: P293483

Luminaire Tested: **24GR-LD5-38-A-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P293483  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33306)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24GR-LD5-38-A-UNV-L82765-W2A1-U-5700K  
Description: GRLED 2x4 TUNABLE WHITE TROFFER  
WITH A LENS  
Light Source: (336) 80 CRI LEDS TUNED TO 5700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4059.0 lumens  
Efficiency: N/A  
Efficacy: 155.3 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.2 / 1.26  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

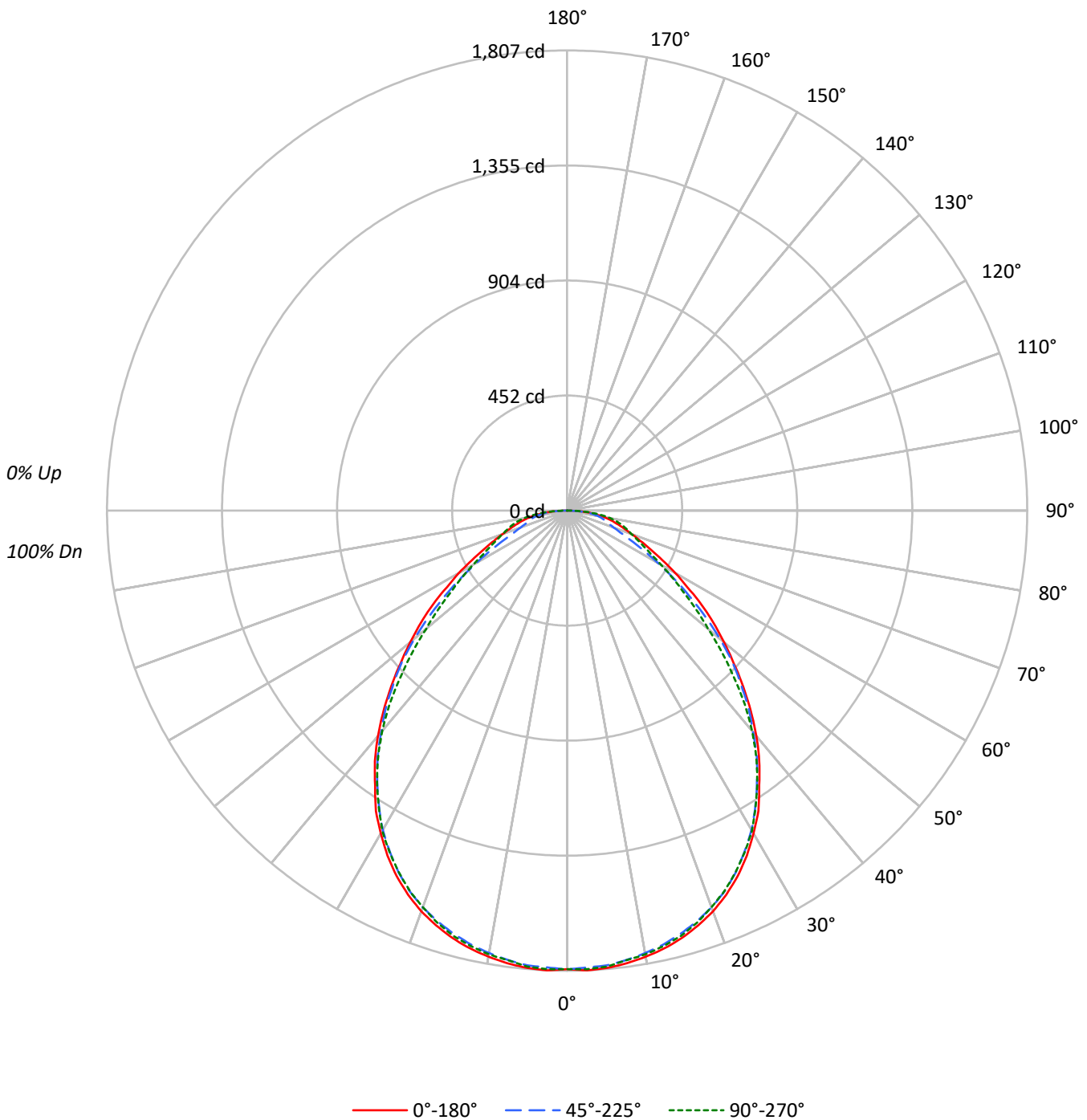
Input Watts (W): 26.133  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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	99	96	99	96	93	95	93	90	91	89	88	86																												
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73																												
3	93	83	75	69	90	81	74	69	79	73	68	76	71	67	73	69	65	63																												
4	86	74	66	60	83	73	65	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	46	72	60	52	46	58	51	46	57	50	45	55	49	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°	2423	2423	2423
5°	2435	2421	2427
10°	2431	2411	2418
15°	2421	2397	2407
20°	2398	2374	2373
25°	2352	2326	2325
30°	2274	2250	2255
35°	2160	2135	2138
40°	2031	1996	1984
45°	1861	1836	1764
50°	1683	1637	1513
55°	1511	1375	1305
60°	1323	1107	1147
65°	1154	870	1056
70°	1056	760	1056
75°	1056	808	1164
80°	1147	952	1327
85°	1258	1074	1423



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	170.5	4.2
10°-20°	486.7	12.0
20°-30°	721.7	17.8
30°-40°	814.1	20.1
40°-50°	737.4	18.2
50°-60°	532.0	13.1
60°-70°	317.6	7.8
70°-80°	196.3	4.8
80°-90°	82.7	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°	1378.9	34.0
0°-40°	2193.0	54.0
0°-60°	3462.4	85.3
0°-90°	4059.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4059.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1801	1801	1801	1801	1801	
5°	1803	1800	1793	1791	1797	171
15°	1738	1728	1721	1721	1728	490
25°	1584	1575	1567	1561	1566	728
35°	1315	1313	1300	1300	1302	823
45°	978	972	965	941	927	754
55°	644	624	586	558	556	575
65°	362	319	273	310	332	365
75°	203	176	156	194	224	217
85°	82	72	70	91	92	85
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1800.9	1800.9	1800.9	1800.9	1800.9
2.5°	1807.2	1802.2	1795.9	1799.7	1802.8
5°	1802.8	1800.3	1792.8	1790.9	1797.2
7.5°	1793.4	1787.1	1780.2	1783.4	1780.9
10°	1779.0	1773.3	1764.6	1765.2	1769.6
12.5°	1761.4	1754.5	1745.1	1747.6	1751.4
15°	1738.2	1727.6	1720.7	1721.3	1728.2
17.5°	1708.8	1700.6	1691.8	1693.7	1696.8
20°	1674.9	1670.5	1658.0	1654.2	1657.3
22.5°	1632.3	1624.1	1617.2	1615.3	1615.9
25°	1584.0	1575.2	1567.0	1561.4	1565.8
27.5°	1527.5	1520.0	1509.3	1507.5	1511.2
30°	1463.6	1457.9	1448.5	1446.0	1451.7
32.5°	1398.4	1388.9	1375.8	1375.8	1377.0
35°	1315.0	1313.1	1299.9	1300.5	1301.8
37.5°	1239.7	1230.9	1223.4	1215.9	1219.6
40°	1156.3	1146.3	1136.2	1131.2	1129.3
42.5°	1066.6	1059.1	1054.7	1036.5	1032.1
45°	978.2	972.0	965.1	941.2	926.8
47.5°	887.9	886.7	881.0	839.0	824.6
50°	803.9	802.0	782.0	737.4	723.0
52.5°	724.3	711.7	685.4	641.5	639.0
55°	644.0	623.9	586.3	557.5	556.2
57.5°	559.3	535.5	497.3	481.6	489.7
60°	491.6	455.2	411.4	413.2	426.4
62.5°	421.4	380.6	337.4	356.2	371.8
65°	362.4	319.2	273.4	310.4	331.7
67.5°	311.0	270.9	227.0	276.5	297.2
70°	268.4	235.8	193.1	245.2	268.4
72.5°	234.5	204.4	171.2	220.1	247.1
75°	203.2	176.2	155.5	193.8	223.9
77.5°	176.2	149.9	140.5	171.2	200.7
80°	148.0	124.2	122.9	149.2	171.2
82.5°	115.4	99.1	99.1	124.8	138.0
85°	81.5	71.5	69.6	90.9	92.2
87.5°	42.0	40.1	36.4	47.7	47.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)