

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: P294273

Luminaire Tested: **24GR-LD5-64-FGW080-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P294273  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-084-25)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24GR-LD5-64-FGW080-UNV-L82765-W2A1-U-5000K  
Description: GRLED 2x4 TUNABLE WHITE TROFFER  
WITH FGW080 LENS  
Light Source: (336) 80 CRI LEDS TUNED TO 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5745.0 lumens  
Efficiency: N/A  
Efficacy: 122.1 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.36  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

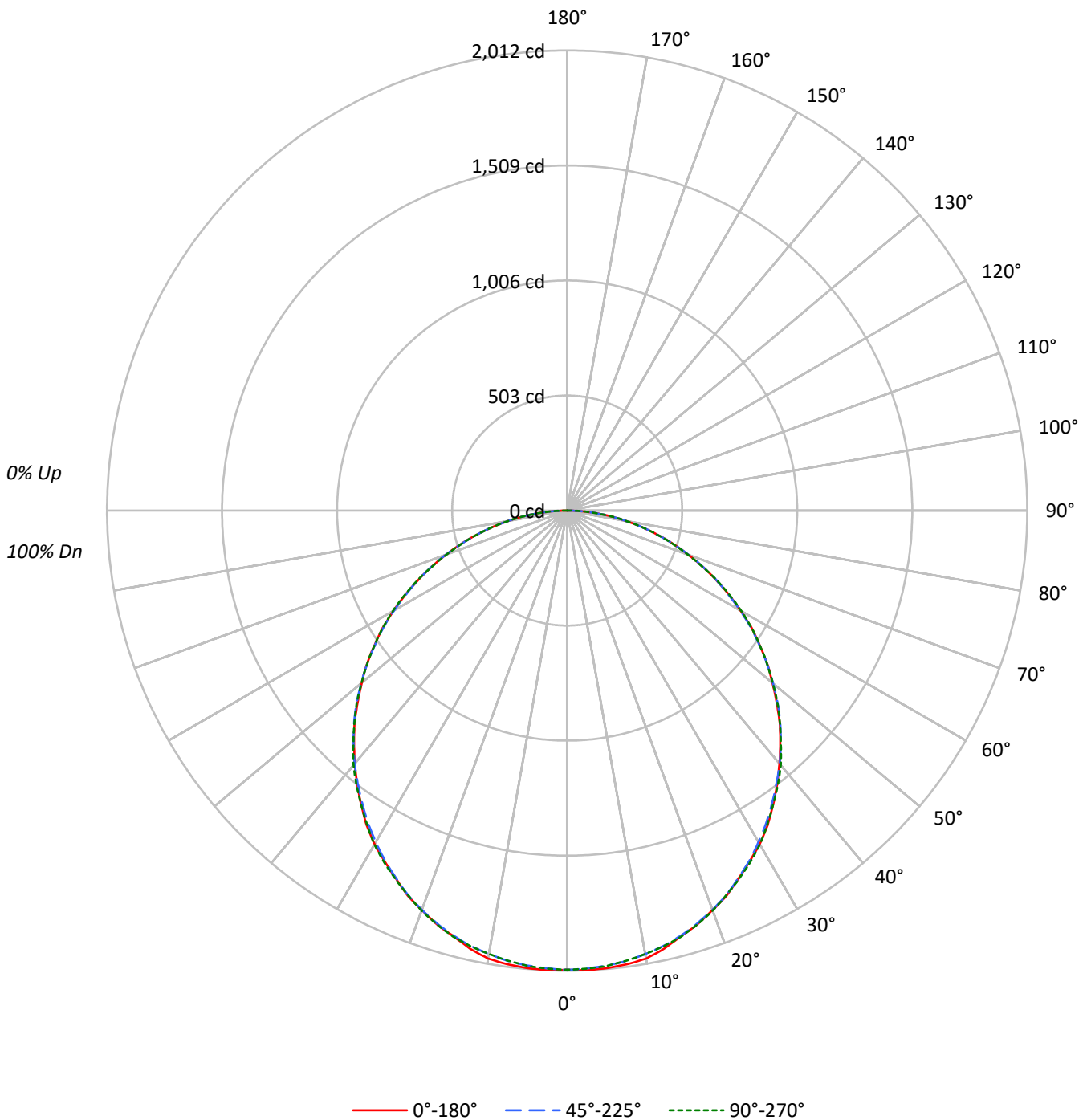
Input Watts (W): 47.058  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	108	103	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	43
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37
7	65	51	42	36	63	50	42	36	48	41	35	47	40	35	46	40	35	33
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	2702	2702	2702
5°	2712	2697	2699
10°	2717	2690	2690
15°	2682	2680	2686
20°	2662	2660	2666
25°	2633	2631	2639
30°	2616	2600	2619
35°	2579	2566	2579
40°	2537	2539	2553
45°	2501	2508	2503
50°	2453	2462	2456
55°	2415	2409	2415
60°	2359	2352	2373
65°	2286	2295	2303
70°	2212	2223	2207
75°	2134	2134	2134
80°	2015	2015	2036
85°	1862	1882	1820



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	189.9	3.3
10°-20°	542.8	9.4
20°-30°	817.9	14.2
30°-40°	979.7	17.1
40°-50°	1014.1	17.7
50°-60°	919.5	16.0
60°-70°	712.9	12.4
70°-80°	433.5	7.5
80°-90°	134.9	2.3
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°	1550.6	27.0
0°-40°	2530.2	44.0
0°-60°	4463.8	77.7
0°-90°	5745.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5745.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2008	2008	2008	2008	2008	
5°	2008	1996	1997	1994	1998	191
15°	1925	1927	1924	1917	1928	544
25°	1774	1774	1772	1778	1778	819
35°	1570	1560	1562	1569	1570	982
45°	1314	1317	1318	1313	1316	1012
55°	1030	1024	1027	1031	1030	920
65°	718	722	721	718	724	712
75°	410	409	410	409	410	434
85°	121	119	122	121	118	135
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2007.9	2007.9	2007.9	2007.9	2007.9
2.5°	2012.0	2003.9	2003.9	2001.2	2005.2
5°	2007.9	1995.7	1997.1	1994.4	1998.5
7.5°	2001.2	1984.9	1986.3	1983.6	1984.9
10°	1989.0	1970.0	1968.7	1967.3	1968.7
12.5°	1961.9	1951.0	1949.7	1947.0	1951.0
15°	1925.3	1926.7	1923.9	1917.2	1928.0
17.5°	1896.8	1895.5	1892.8	1886.0	1896.8
20°	1858.9	1860.3	1857.6	1854.8	1861.6
22.5°	1822.3	1818.3	1819.6	1818.3	1819.6
25°	1773.5	1773.5	1772.2	1777.6	1777.6
27.5°	1728.8	1723.4	1726.1	1731.5	1734.3
30°	1684.1	1670.6	1673.3	1678.7	1685.5
32.5°	1631.3	1617.7	1620.4	1625.9	1628.6
35°	1570.3	1559.5	1562.2	1569.0	1570.3
37.5°	1508.0	1501.2	1503.9	1509.3	1513.4
40°	1444.3	1441.6	1445.7	1444.3	1453.8
42.5°	1379.3	1377.9	1382.0	1382.0	1383.3
45°	1314.2	1317.0	1318.3	1312.9	1315.6
47.5°	1242.4	1243.8	1249.2	1246.5	1247.9
50°	1172.0	1170.6	1176.0	1177.4	1173.3
52.5°	1104.2	1097.5	1102.9	1105.6	1102.9
55°	1029.7	1024.3	1027.0	1031.1	1029.7
57.5°	956.6	951.1	952.5	959.3	956.6
60°	876.6	875.3	873.9	879.3	882.0
62.5°	798.0	796.7	794.0	799.4	802.1
65°	718.1	722.2	720.8	718.1	723.5
67.5°	642.2	646.3	642.2	639.5	639.5
70°	562.3	566.3	565.0	562.3	560.9
72.5°	487.8	487.8	485.0	483.7	485.0
75°	410.5	409.2	410.5	409.2	410.5
77.5°	334.7	336.0	336.0	336.0	334.7
80°	260.1	260.1	260.1	261.5	262.8
82.5°	191.0	187.0	191.0	188.3	189.7
85°	120.6	119.2	121.9	120.6	117.9
87.5°	54.2	55.6	55.6	56.9	56.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)