

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: P294275

Luminaire Tested: **24GR-LD5-64-FGW080-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P294275  
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-5700K  
Description: GRLED 2x4 TUNABLE WHITE TROFFER  
WITH FGW080 LENS  
Light Source: (336) 80 CRI LEDS TUNED TO 5700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5817.0 lumens  
Efficiency: N/A  
Efficacy: 123.1 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

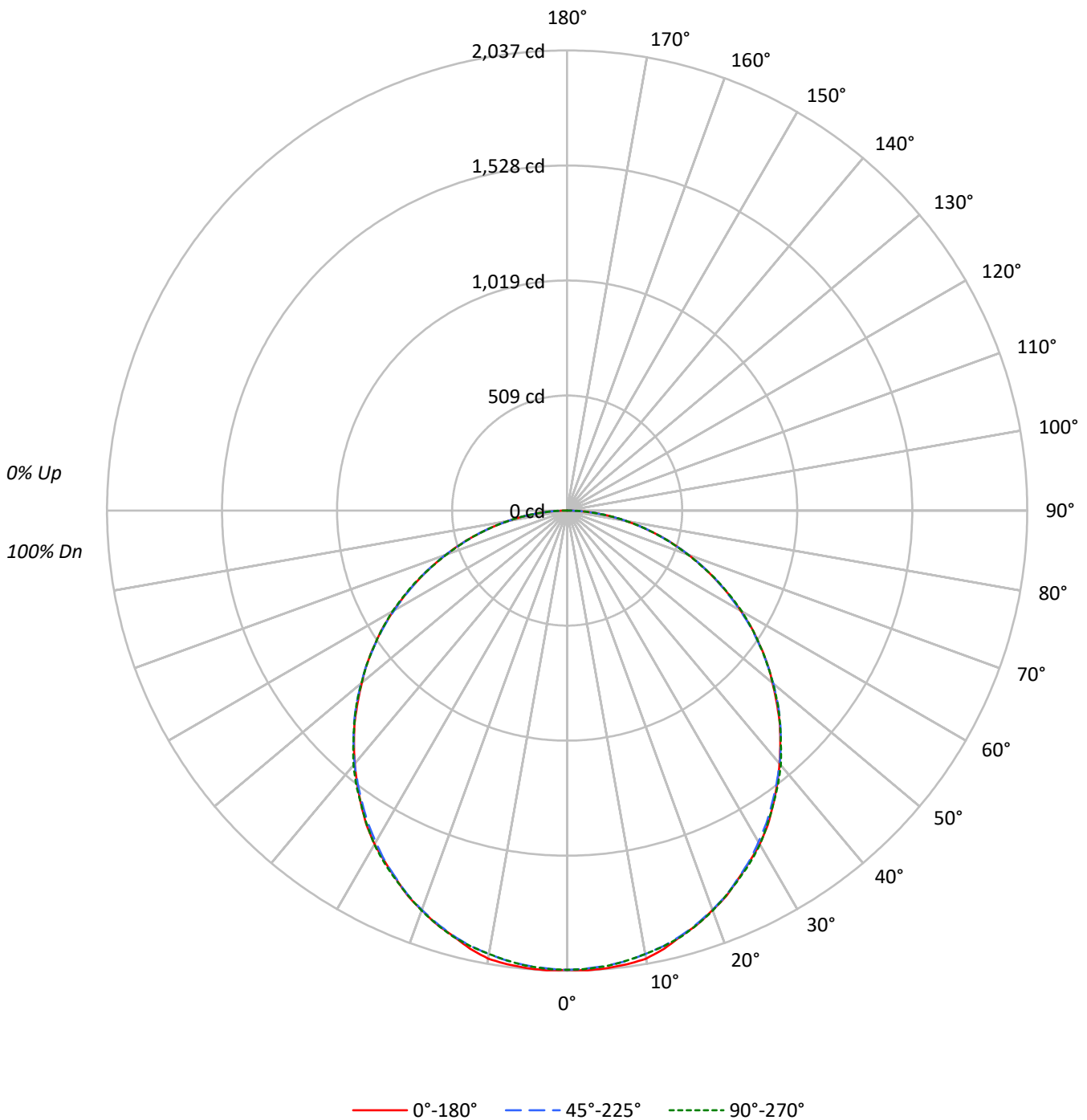
Input Watts (W): 47.244  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2736	2736	2736
5°	2746	2731	2733
10°	2751	2723	2723
15°	2715	2714	2719
20°	2695	2693	2699
25°	2666	2664	2672
30°	2649	2632	2651
35°	2612	2598	2612
40°	2569	2571	2585
45°	2532	2540	2535
50°	2484	2493	2487
55°	2446	2439	2446
60°	2389	2381	2403
65°	2315	2323	2332
70°	2240	2251	2234
75°	2161	2161	2161
80°	2041	2041	2062
85°	1885	1907	1843



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	192.2	3.3
10°-20°	549.6	9.4
20°-30°	828.2	14.2
30°-40°	991.9	17.1
40°-50°	1026.8	17.7
50°-60°	931.0	16.0
60°-70°	721.8	12.4
70°-80°	439.0	7.5
80°-90°	136.6	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°	1570.0	27.0
0°-40°	2561.9	44.0
0°-60°	4519.7	77.7
0°-90°	5817.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5817.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2033	2033	2033	2033	2033	
5°	2033	2021	2022	2019	2024	193
15°	1949	1951	1948	1941	1952	551
25°	1796	1796	1794	1800	1800	829
35°	1590	1579	1582	1589	1590	995
45°	1331	1334	1335	1329	1332	1025
55°	1043	1037	1040	1044	1043	932
65°	727	731	730	727	733	721
75°	416	414	416	414	416	439
85°	122	121	124	122	119	137
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2033.1	2033.1	2033.1	2033.1	2033.1
2.5°	2037.2	2029.0	2029.0	2026.2	2030.4
5°	2033.1	2020.8	2022.1	2019.4	2023.5
7.5°	2026.2	2009.8	2011.2	2008.4	2009.8
10°	2013.9	1994.7	1993.3	1992.0	1993.3
12.5°	1986.5	1975.5	1974.1	1971.4	1975.5
15°	1949.4	1950.8	1948.1	1941.2	1952.2
17.5°	1920.6	1919.2	1916.5	1909.6	1920.6
20°	1882.2	1883.6	1880.8	1878.1	1884.9
22.5°	1845.2	1841.0	1842.4	1841.0	1842.4
25°	1795.8	1795.8	1794.4	1799.9	1799.9
27.5°	1750.5	1745.0	1747.8	1753.2	1756.0
30°	1705.2	1691.5	1694.3	1699.7	1706.6
32.5°	1651.7	1638.0	1640.8	1646.2	1649.0
35°	1590.0	1579.0	1581.8	1588.6	1590.0
37.5°	1526.9	1520.0	1522.8	1528.3	1532.4
40°	1462.4	1459.7	1463.8	1462.4	1472.0
42.5°	1396.6	1395.2	1399.3	1399.3	1400.7
45°	1330.7	1333.5	1334.8	1329.3	1332.1
47.5°	1258.0	1259.4	1264.9	1262.1	1263.5
50°	1186.7	1185.3	1190.8	1192.2	1188.0
52.5°	1118.1	1111.2	1116.7	1119.4	1116.7
55°	1042.6	1037.1	1039.9	1044.0	1042.6
57.5°	968.5	963.1	964.4	971.3	968.5
60°	887.6	886.2	884.9	890.3	893.1
62.5°	808.0	806.7	803.9	809.4	812.1
65°	727.1	731.2	729.8	727.1	732.6
67.5°	650.3	654.4	650.3	647.5	647.5
70°	569.3	573.4	572.1	569.3	568.0
72.5°	493.9	493.9	491.1	489.8	491.1
75°	415.7	414.3	415.7	414.3	415.7
77.5°	338.9	340.2	340.2	340.2	338.9
80°	263.4	263.4	263.4	264.8	266.1
82.5°	193.4	189.3	193.4	190.7	192.1
85°	122.1	120.7	123.5	122.1	119.4
87.5°	54.9	56.2	56.2	57.6	57.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)