

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: P294269

Luminaire Tested: **24GR-LD5-64-FGW080-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P294269  
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-3000K  
Description: GRLED 2x4 TUNABLE WHITE TROFFER  
WITH FGW080 LENS  
Light Source: (336) 80 CRI LEDS TUNED TO 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5268.0 lumens  
Efficiency: N/A  
Efficacy: 115.4 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

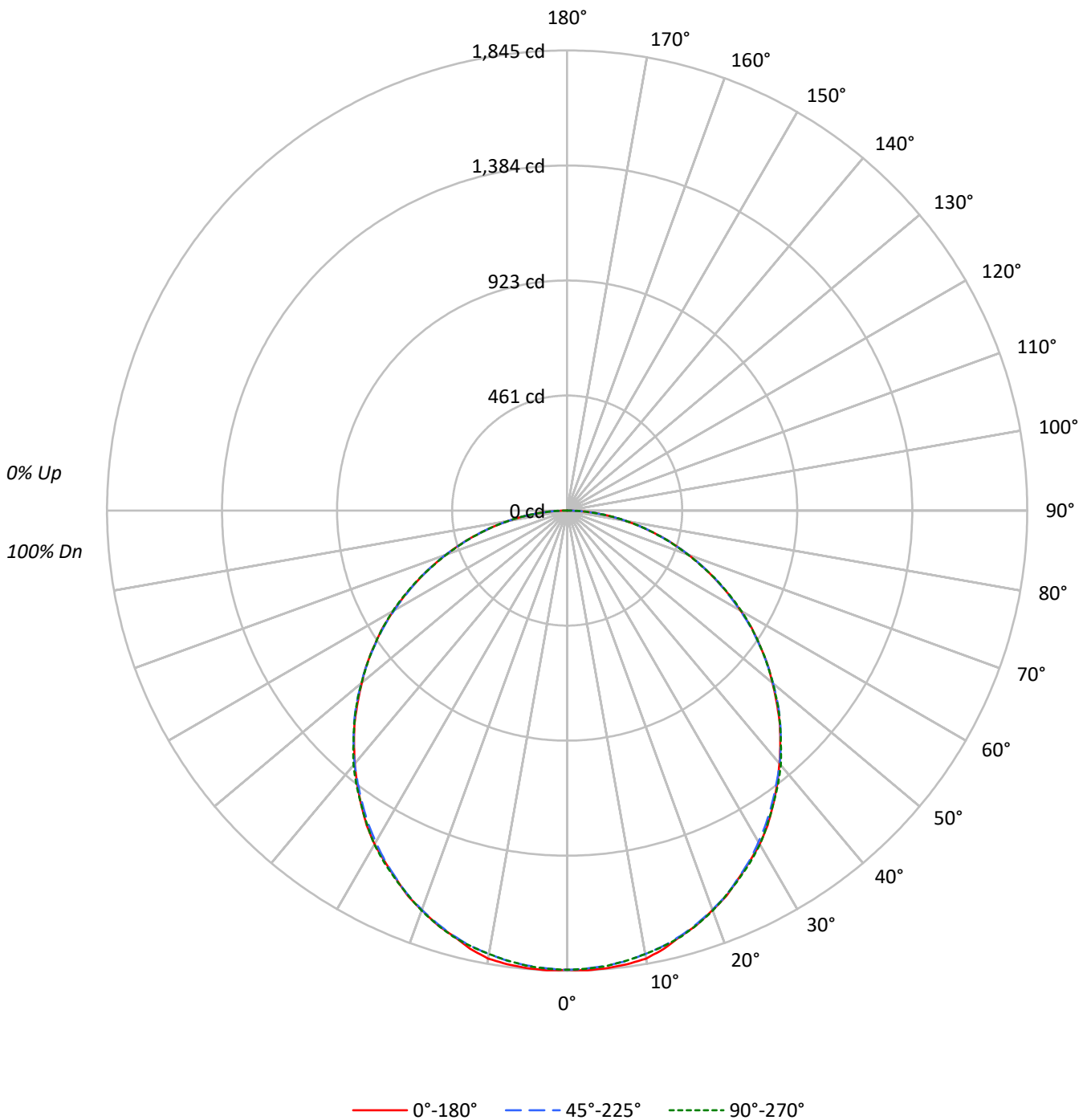
Input Watts (W): 45.663  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2477	2477	2477
5°	2487	2473	2475
10°	2492	2466	2466
15°	2459	2457	2463
20°	2441	2439	2444
25°	2414	2413	2420
30°	2399	2384	2401
35°	2365	2353	2365
40°	2326	2328	2341
45°	2293	2300	2296
50°	2250	2257	2252
55°	2215	2209	2215
60°	2163	2156	2176
65°	2096	2104	2112
70°	2028	2038	2024
75°	1957	1957	1957
80°	1848	1848	1867
85°	1707	1726	1669



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	174.1	3.3
10°-20°	497.7	9.4
20°-30°	750.0	14.2
30°-40°	898.3	17.1
40°-50°	929.9	17.7
50°-60°	843.1	16.0
60°-70°	653.7	12.4
70°-80°	397.5	7.5
80°-90°	123.7	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°	1421.8	27.0
0°-40°	2320.1	44.0
0°-60°	4093.1	77.7
0°-90°	5268.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5268.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1841	1841	1841	1841	1841	
5°	1841	1830	1831	1829	1832	175
15°	1765	1767	1764	1758	1768	499
25°	1626	1626	1625	1630	1630	751
35°	1440	1430	1432	1439	1440	901
45°	1205	1208	1209	1204	1206	928
55°	944	939	942	946	944	844
65°	658	662	661	658	663	653
75°	376	375	376	375	376	398
85°	111	109	112	111	108	124
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1841.2	1841.2	1841.2	1841.2	1841.2
2.5°	1845.0	1837.5	1837.5	1835.0	1838.7
5°	1841.2	1830.0	1831.3	1828.8	1832.5
7.5°	1835.0	1820.1	1821.3	1818.9	1820.1
10°	1823.8	1806.4	1805.2	1804.0	1805.2
12.5°	1799.0	1789.0	1787.8	1785.3	1789.0
15°	1765.4	1766.7	1764.2	1758.0	1767.9
17.5°	1739.4	1738.1	1735.6	1729.4	1739.4
20°	1704.6	1705.8	1703.3	1700.8	1707.0
22.5°	1671.0	1667.3	1668.5	1667.3	1668.5
25°	1626.3	1626.3	1625.1	1630.0	1630.0
27.5°	1585.3	1580.3	1582.8	1587.8	1590.3
30°	1544.3	1531.9	1534.4	1539.3	1545.5
32.5°	1495.8	1483.4	1485.9	1490.9	1493.4
35°	1439.9	1430.0	1432.5	1438.7	1439.9
37.5°	1382.8	1376.6	1379.1	1384.0	1387.8
40°	1324.4	1321.9	1325.6	1324.4	1333.1
42.5°	1264.8	1263.5	1267.2	1267.2	1268.5
45°	1205.1	1207.6	1208.8	1203.9	1206.4
47.5°	1139.3	1140.5	1145.5	1143.0	1144.2
50°	1074.7	1073.4	1078.4	1079.6	1075.9
52.5°	1012.6	1006.3	1011.3	1013.8	1011.3
55°	944.2	939.2	941.7	945.5	944.2
57.5°	877.1	872.2	873.4	879.6	877.1
60°	803.8	802.6	801.3	806.3	808.8
62.5°	731.8	730.5	728.0	733.0	735.5
65°	658.5	662.2	661.0	658.5	663.4
67.5°	588.9	592.6	588.9	586.4	586.4
70°	515.6	519.3	518.1	515.6	514.4
72.5°	447.3	447.3	444.8	443.5	444.8
75°	376.4	375.2	376.4	375.2	376.4
77.5°	306.9	308.1	308.1	308.1	306.9
80°	238.5	238.5	238.5	239.8	241.0
82.5°	175.2	171.5	175.2	172.7	173.9
85°	110.6	109.3	111.8	110.6	108.1
87.5°	49.7	50.9	50.9	52.2	52.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)