

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: P475842

Luminaire Tested: **24GR-LD5-64-FGW080-UNV-L835-CD1-U**

Issue Date: 02/10/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P475842  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 02/10/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24GR-LD5-64-FGW080-UNV-L835-CD1-U  
Description: GR 2'X4' LED TROFFER w/ FGW080 LENS  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5386.9 lumens  
Efficiency: N/A  
Efficacy: 124.1 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.25 / 1.36  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

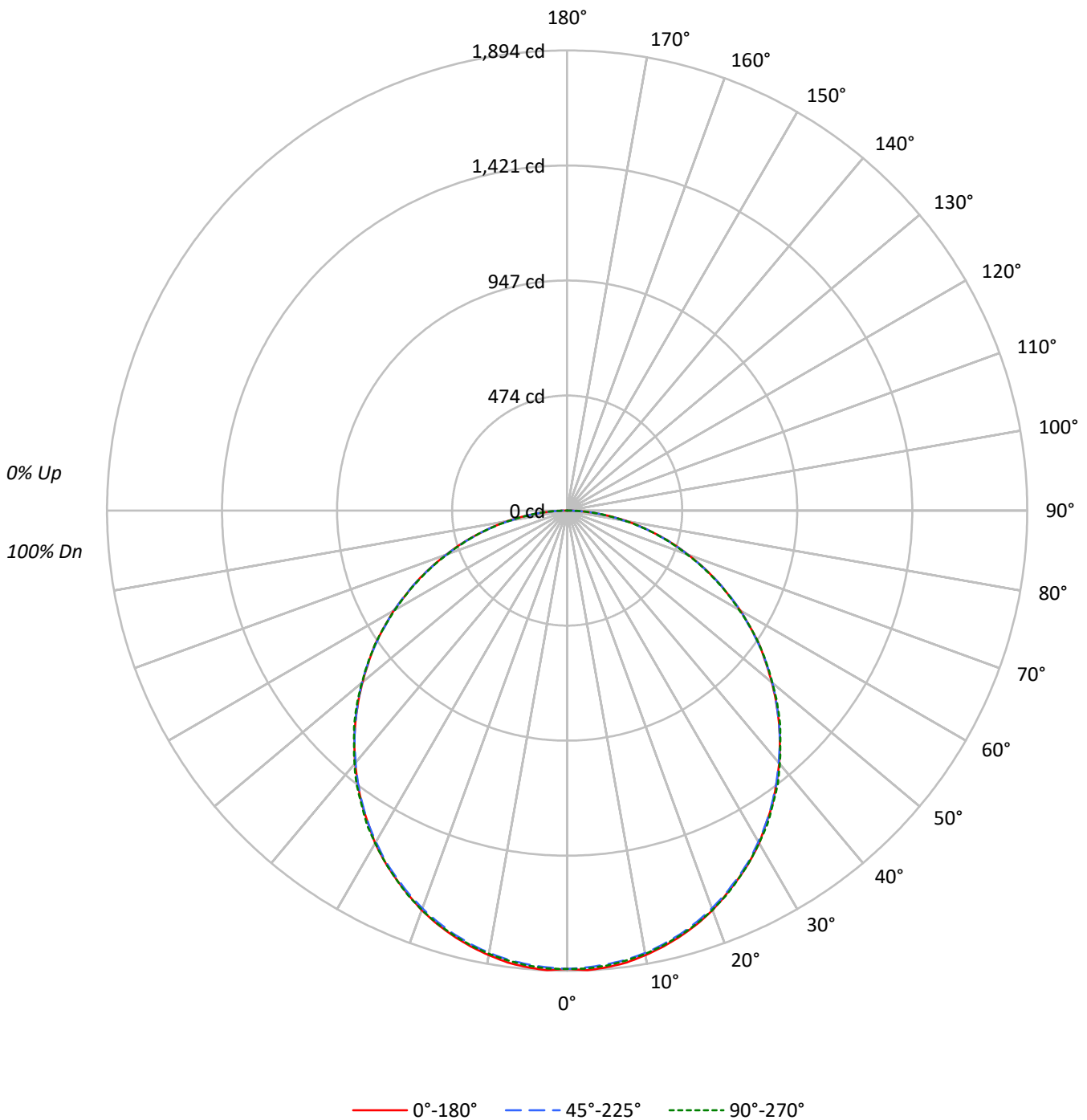
Input Watts (W): 43.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	104	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	85	79	74	81	77	73	78	74	71	69
3	90	79	71	64	87	77	70	63	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	52	49
5	75	62	53	47	73	61	53	46	59	52	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	49	41	35	47	40	35	46	40	35	33
8	60	46	38	32	58	46	38	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°	2539	2539	2539
5°	2548	2533	2539
10°	2539	2526	2531
15°	2525	2513	2520
20°	2506	2495	2504
25°	2479	2472	2481
30°	2455	2446	2455
35°	2420	2416	2425
40°	2386	2379	2392
45°	2347	2347	2357
50°	2302	2308	2308
55°	2270	2261	2268
60°	2218	2216	2201
65°	2154	2152	2139
70°	2079	2074	2063
75°	2000	1994	1997
80°	1908	1870	1880
85°	1694	1694	1714



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	178.4	3.3
10°-20°	509.7	9.5
20°-30°	768.4	14.3
30°-40°	920.9	17.1
40°-50°	951.4	17.7
50°-60°	861.6	16.0
60°-70°	667.4	12.4
70°-80°	404.8	7.5
80°-90°	124.3	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°	1456.5	27.0
0°-40°	2377.4	44.1
0°-60°	4190.4	77.8
0°-90°	5386.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5386.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1887	1887	1887	1887	1887	
5°	1887	1880	1875	1875	1880	179
15°	1812	1807	1804	1805	1809	511
25°	1670	1666	1665	1669	1671	770
35°	1474	1468	1471	1474	1476	921
45°	1233	1231	1233	1235	1239	951
55°	968	962	964	965	967	862
65°	677	673	676	674	672	669
75°	385	385	384	380	384	408
85°	110	112	110	108	111	126
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1886.8	1886.8	1886.8	1886.8	1886.8
2.5°	1893.5	1886.8	1881.9	1881.9	1886.2
5°	1886.8	1879.5	1875.2	1875.2	1879.5
7.5°	1875.8	1867.9	1864.2	1864.2	1867.9
10°	1858.2	1852.1	1849.0	1849.0	1852.7
12.5°	1837.4	1831.9	1828.3	1828.9	1832.5
15°	1812.4	1806.9	1803.9	1805.1	1808.8
17.5°	1783.2	1777.7	1775.2	1777.1	1781.3
20°	1750.2	1743.5	1742.3	1744.2	1749.0
22.5°	1710.6	1706.4	1705.7	1708.8	1713.1
25°	1669.8	1666.1	1664.9	1668.6	1671.0
27.5°	1627.7	1621.0	1623.4	1624.1	1627.7
30°	1580.2	1574.1	1574.1	1576.5	1580.2
32.5°	1525.3	1521.6	1524.7	1527.7	1533.2
35°	1473.5	1468.0	1471.0	1473.5	1476.5
37.5°	1415.0	1413.7	1414.3	1418.0	1422.9
40°	1358.3	1354.6	1354.6	1359.5	1361.9
42.5°	1296.1	1293.0	1295.5	1297.9	1299.1
45°	1233.3	1230.8	1233.3	1235.1	1238.8
47.5°	1166.2	1166.8	1167.4	1168.7	1172.3
50°	1099.8	1102.2	1102.8	1105.3	1102.8
52.5°	1030.9	1031.5	1033.9	1034.5	1035.2
55°	967.5	962.0	963.8	965.0	966.9
57.5°	893.1	891.3	891.3	893.1	894.3
60°	824.2	820.6	823.6	820.0	818.1
62.5°	747.4	748.6	749.8	749.2	746.2
65°	676.7	673.0	676.1	674.3	671.8
67.5°	602.3	599.3	600.5	599.9	599.3
70°	528.5	528.5	527.3	524.3	524.3
72.5°	459.1	455.4	456.6	453.0	453.0
75°	384.7	384.7	383.5	379.8	384.1
77.5°	315.2	313.3	312.1	309.7	309.7
80°	246.3	242.0	241.4	241.4	242.6
82.5°	178.6	175.6	174.4	174.4	175.0
85°	109.7	111.6	109.7	107.9	111.0
87.5°	51.8	49.4	49.4	51.2	52.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)