

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: P475872

Luminaire Tested: **24GR-LD5-64-FGW080-UNV-L850-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475872
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-L850-CD1-U
Description: GR 2'X4' LED TROFFER w/ FGW080 LENS
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5494.7 lumens
Efficiency: N/A
Efficacy: 126.6 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

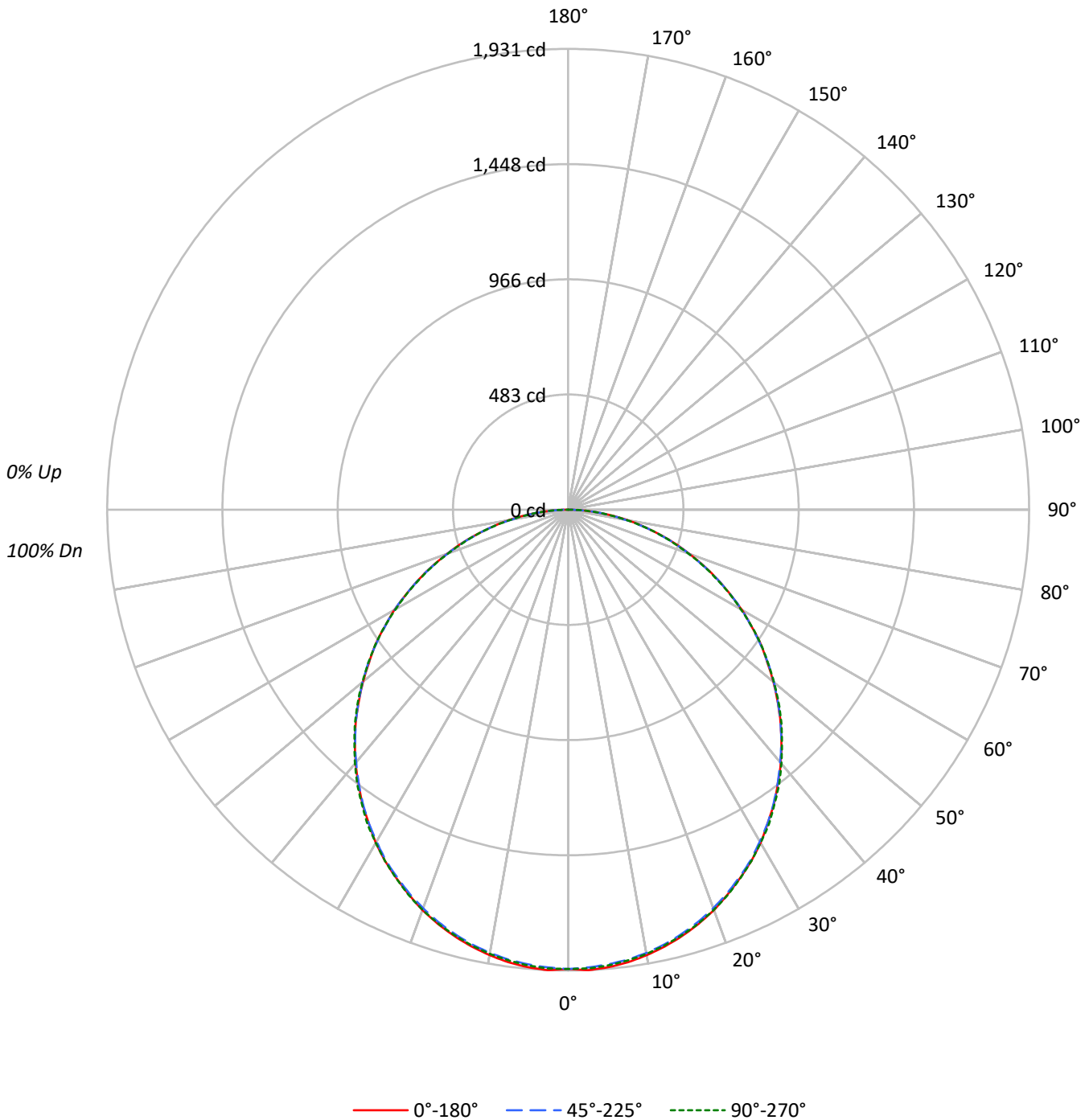
Input Watts (W): 43.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2589	2589	2589
5°	2599	2583	2589
10°	2589	2577	2582
15°	2575	2563	2570
20°	2556	2545	2554
25°	2529	2521	2530
30°	2504	2494	2504
35°	2469	2465	2474
40°	2433	2427	2440
45°	2394	2394	2404
50°	2348	2355	2355
55°	2315	2306	2313
60°	2262	2261	2246
65°	2197	2195	2181
70°	2121	2116	2104
75°	2040	2033	2036
80°	1946	1908	1918
85°	1727	1727	1748



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.0	3.3
10°-20°	519.9	9.5
20°-30°	783.8	14.3
30°-40°	939.3	17.1
40°-50°	970.4	17.7
50°-60°	878.8	16.0
60°-70°	680.8	12.4
70°-80°	412.9	7.5
80°-90°	126.8	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°	1485.7	27.0
0°-40°	2425.0	44.1
0°-60°	4274.2	77.8
0°-90°	5494.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5494.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1924	1924	1924	1924	1924	
5°	1924	1917	1913	1913	1917	183
15°	1849	1843	1840	1841	1845	522
25°	1703	1699	1698	1702	1704	785
35°	1503	1497	1500	1503	1506	940
45°	1258	1256	1258	1260	1264	970
55°	987	981	983	984	986	879
65°	690	686	690	688	685	682
75°	392	392	391	387	392	416
85°	112	114	112	110	113	129
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1924.5	1924.5	1924.5	1924.5	1924.5
2.5°	1931.4	1924.5	1919.6	1919.6	1923.9
5°	1924.5	1917.1	1912.7	1912.7	1917.1
7.5°	1913.3	1905.3	1901.5	1901.5	1905.3
10°	1895.3	1889.1	1886.0	1886.0	1889.7
12.5°	1874.2	1868.6	1864.8	1865.5	1869.2
15°	1848.7	1843.1	1840.0	1841.2	1844.9
17.5°	1818.8	1813.2	1810.7	1812.6	1817.0
20°	1785.3	1778.4	1777.2	1779.0	1784.0
22.5°	1744.8	1740.5	1739.9	1743.0	1747.3
25°	1703.2	1699.4	1698.2	1701.9	1704.4
27.5°	1660.3	1653.4	1655.9	1656.5	1660.3
30°	1611.8	1605.5	1605.5	1608.0	1611.8
32.5°	1555.8	1552.1	1555.2	1558.3	1563.9
35°	1502.9	1497.3	1500.5	1502.9	1506.1
37.5°	1443.3	1442.0	1442.6	1446.4	1451.3
40°	1385.4	1381.7	1381.7	1386.7	1389.2
42.5°	1322.0	1318.9	1321.4	1323.9	1325.1
45°	1257.9	1255.5	1257.9	1259.8	1263.5
47.5°	1189.5	1190.2	1190.8	1192.0	1195.8
50°	1121.8	1124.3	1124.9	1127.4	1124.9
52.5°	1051.5	1052.1	1054.6	1055.2	1055.9
55°	986.8	981.2	983.1	984.3	986.2
57.5°	911.0	909.1	909.1	911.0	912.2
60°	840.7	837.0	840.1	836.4	834.5
62.5°	762.4	763.6	764.8	764.2	761.1
65°	690.2	686.5	689.6	687.7	685.2
67.5°	614.4	611.3	612.5	611.9	611.3
70°	539.1	539.1	537.9	534.8	534.8
72.5°	468.2	464.5	465.7	462.0	462.0
75°	392.4	392.4	391.1	387.4	391.7
77.5°	321.5	319.6	318.4	315.9	315.9
80°	251.2	246.9	246.2	246.2	247.5
82.5°	182.2	179.1	177.8	177.8	178.5
85°	111.9	113.8	111.9	110.1	113.2
87.5°	52.9	50.4	50.4	52.2	53.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)