

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: P475843

Luminaire Tested: **24GR-LD5-72-FGW080-UNV-L835-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475843
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-72-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: 6047.4 lumens
Efficiency: N/A
Efficacy: 124.2 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

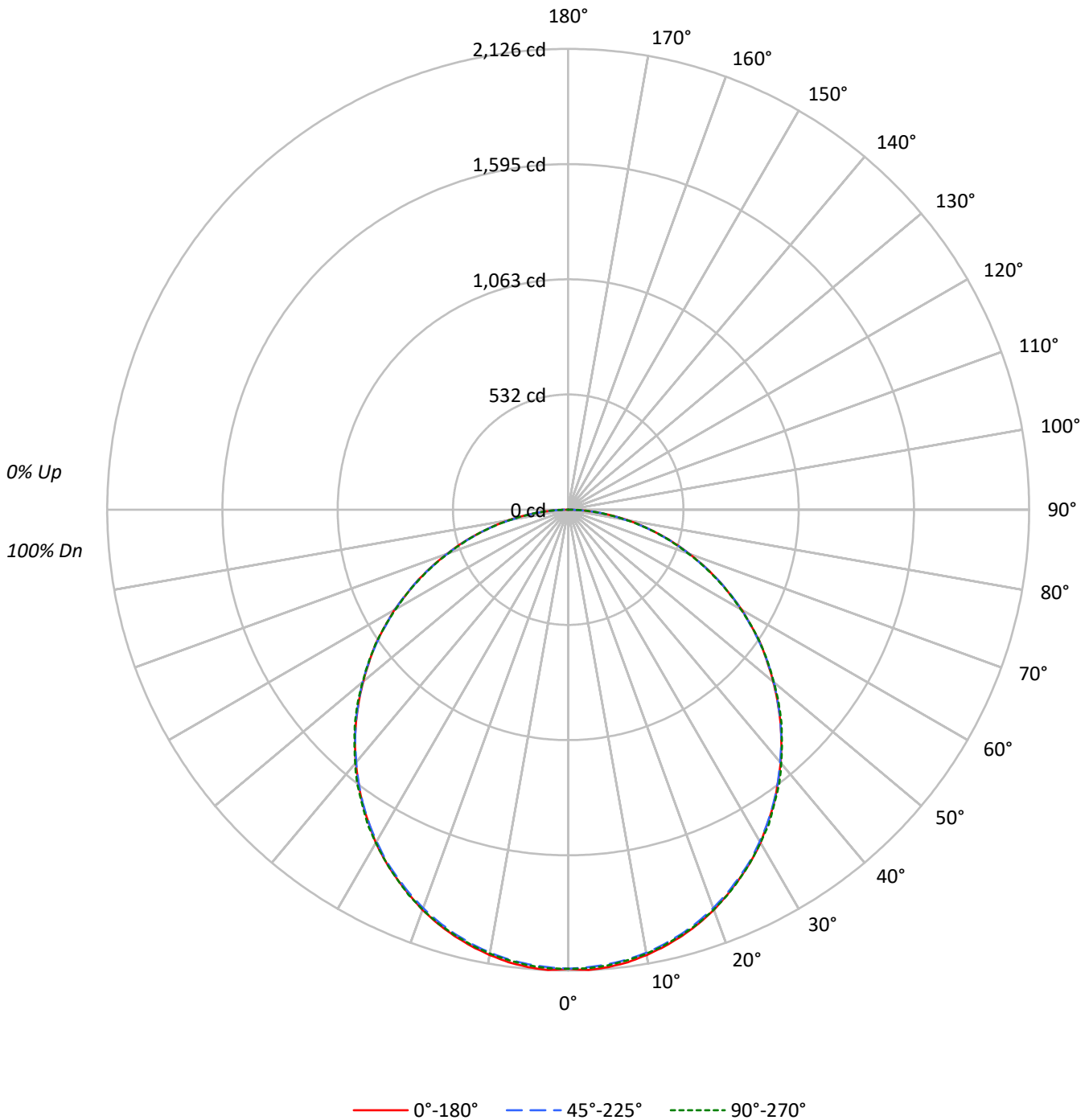
Input Watts (W): 48.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20			20				20			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	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100
1	108	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83	83	83
2	98	90	83	77	96	88	82	76	85	79	74	81	77	73	78	74	71	69	69	69
3	90	79	71	64	87	77	70	63	74	68	62	72	66	61	69	64	60	58	58	58
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	52	49	49	49
5	75	62	53	47	73	61	53	46	59	52	46	57	50	45	55	49	45	43	43	43
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37	37	37
7	65	51	42	36	63	50	42	36	49	41	35	47	40	35	46	40	35	33	33	33
8	60	46	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31	29	29	29
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26	26	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24	24	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2850	2850	2850
5°	2861	2843	2850
10°	2850	2836	2842
15°	2834	2821	2828
20°	2813	2801	2811
25°	2783	2775	2785
30°	2756	2745	2756
35°	2717	2712	2723
40°	2678	2671	2685
45°	2634	2634	2646
50°	2584	2591	2591
55°	2548	2538	2546
60°	2490	2488	2471
65°	2418	2416	2401
70°	2334	2329	2316
75°	2245	2238	2242
80°	2142	2100	2111
85°	1902	1902	1924



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	200.3	3.3
10°-20°	572.2	9.5
20°-30°	862.6	14.3
30°-40°	1033.8	17.1
40°-50°	1068.0	17.7
50°-60°	967.2	16.0
60°-70°	749.3	12.4
70°-80°	454.4	7.5
80°-90°	139.5	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°	1635.1	27.0
0°-40°	2668.9	44.1
0°-60°	4704.1	77.8
0°-90°	6047.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6047.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2118	2118	2118	2118	2118	
5°	2118	2110	2105	2105	2110	201
15°	2035	2028	2025	2026	2030	574
25°	1874	1870	1869	1873	1876	864
35°	1654	1648	1651	1654	1658	1034
45°	1384	1382	1384	1386	1391	1067
55°	1086	1080	1082	1083	1085	968
65°	760	756	759	757	754	751
75°	432	432	430	426	431	458
85°	123	125	123	121	125	142
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2118.1	2118.1	2118.1	2118.1	2118.1
2.5°	2125.6	2118.1	2112.6	2112.6	2117.4
5°	2118.1	2109.9	2105.1	2105.1	2109.9
7.5°	2105.8	2096.9	2092.8	2092.8	2096.9
10°	2086.0	2079.1	2075.7	2075.7	2079.8
12.5°	2062.7	2056.5	2052.4	2053.1	2057.2
15°	2034.6	2028.5	2025.0	2026.4	2030.5
17.5°	2001.8	1995.6	1992.9	1994.9	1999.7
20°	1964.8	1957.3	1955.9	1958.0	1963.4
22.5°	1920.3	1915.5	1914.9	1918.3	1923.1
25°	1874.5	1870.4	1869.0	1873.1	1875.8
27.5°	1827.3	1819.7	1822.5	1823.2	1827.3
30°	1773.9	1767.0	1767.0	1769.8	1773.9
32.5°	1712.3	1708.2	1711.6	1715.0	1721.2
35°	1654.1	1648.0	1651.4	1654.1	1657.5
37.5°	1588.4	1587.0	1587.7	1591.8	1597.3
40°	1524.8	1520.7	1520.7	1526.1	1528.9
42.5°	1455.0	1451.5	1454.3	1457.0	1458.4
45°	1384.5	1381.7	1384.5	1386.5	1390.6
47.5°	1309.2	1309.9	1310.6	1311.9	1316.0
50°	1234.6	1237.3	1238.0	1240.8	1238.0
52.5°	1157.3	1157.9	1160.7	1161.4	1162.1
55°	1086.1	1079.9	1082.0	1083.4	1085.4
57.5°	1002.6	1000.5	1000.5	1002.6	1004.0
60°	925.3	921.2	924.6	920.5	918.4
62.5°	839.0	840.4	841.8	841.1	837.7
65°	759.6	755.5	759.0	756.9	754.2
67.5°	676.2	672.7	674.1	673.4	672.7
70°	593.3	593.3	592.0	588.6	588.6
72.5°	515.3	511.2	512.6	508.5	508.5
75°	431.8	431.8	430.5	426.4	431.2
77.5°	353.8	351.8	350.4	347.7	347.7
80°	276.5	271.7	271.0	271.0	272.4
82.5°	200.5	197.1	195.7	195.7	196.4
85°	123.2	125.2	123.2	121.1	124.6
87.5°	58.2	55.4	55.4	57.5	58.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)