

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: P294333

Luminaire Tested: **24GR-LD5-72-FGW080-UNV-L93050-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P294333
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-LD5-72-FGW080-UNV-L93050-W2A1-U-4500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5888.0 lumens
Efficiency: N/A
Efficacy: 107.5 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

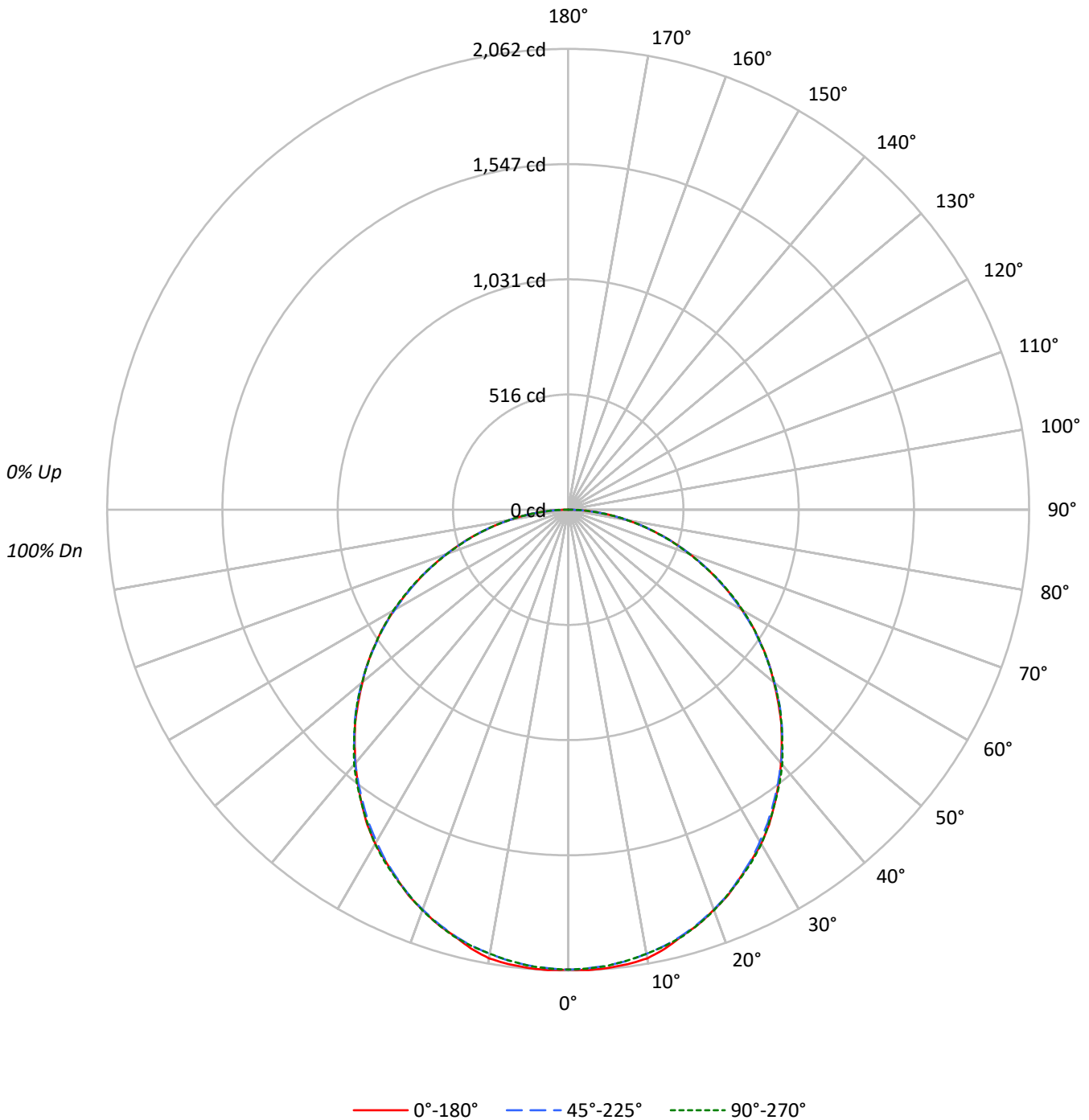
Input Watts (W): 54.75189
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2769	2769	2769
5°	2779	2764	2766
10°	2785	2757	2757
15°	2749	2747	2752
20°	2728	2726	2732
25°	2699	2696	2705
30°	2682	2664	2684
35°	2644	2630	2644
40°	2600	2602	2617
45°	2563	2571	2566
50°	2514	2523	2517
55°	2476	2469	2476
60°	2418	2410	2433
65°	2343	2352	2361
70°	2267	2278	2262
75°	2187	2187	2187
80°	2066	2066	2087
85°	1908	1930	1865



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	194.6	3.3
10°-20°	556.3	9.4
20°-30°	838.3	14.2
30°-40°	1004.0	17.1
40°-50°	1039.3	17.7
50°-60°	942.4	16.0
60°-70°	730.6	12.4
70°-80°	444.3	7.5
80°-90°	138.2	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°	1589.1	27.0
0°-40°	2593.2	44.0
0°-60°	4574.9	77.7
0°-90°	5888.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5888.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2058	2058	2058	2058	2058	
5°	2058	2045	2047	2044	2048	196
15°	1973	1975	1972	1965	1976	558
25°	1818	1818	1816	1822	1822	839
35°	1609	1598	1601	1608	1609	1007
45°	1347	1350	1351	1346	1348	1038
55°	1055	1050	1053	1057	1055	943
65°	736	740	739	736	742	730
75°	421	419	421	419	421	444
85°	124	122	125	124	121	138
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2057.9	2057.9	2057.9	2057.9	2057.9
2.5°	2062.1	2053.8	2053.8	2051.0	2055.1
5°	2057.9	2045.4	2046.8	2044.0	2048.2
7.5°	2051.0	2034.3	2035.7	2032.9	2034.3
10°	2038.5	2019.0	2017.7	2016.3	2017.7
12.5°	2010.7	1999.6	1998.2	1995.4	1999.6
15°	1973.2	1974.6	1971.8	1964.9	1976.0
17.5°	1944.1	1942.7	1939.9	1932.9	1944.1
20°	1905.2	1906.6	1903.8	1901.0	1908.0
22.5°	1867.7	1863.5	1864.9	1863.5	1864.9
25°	1817.7	1817.7	1816.3	1821.9	1821.9
27.5°	1771.9	1766.3	1769.1	1774.6	1777.4
30°	1726.0	1712.2	1714.9	1720.5	1727.4
32.5°	1671.9	1658.0	1660.8	1666.3	1669.1
35°	1609.4	1598.3	1601.1	1608.0	1609.4
37.5°	1545.5	1538.6	1541.4	1546.9	1551.1
40°	1480.3	1477.5	1481.6	1480.3	1490.0
42.5°	1413.6	1412.2	1416.4	1416.4	1417.8
45°	1347.0	1349.7	1351.1	1345.6	1348.3
47.5°	1273.4	1274.7	1280.3	1277.5	1278.9
50°	1201.1	1199.8	1205.3	1206.7	1202.5
52.5°	1131.7	1124.8	1130.3	1133.1	1130.3
55°	1055.3	1049.8	1052.6	1056.7	1055.3
57.5°	980.4	974.8	976.2	983.1	980.4
60°	898.4	897.0	895.7	901.2	904.0
62.5°	817.9	816.5	813.7	819.3	822.1
65°	736.0	740.1	738.7	736.0	741.5
67.5°	658.2	662.4	658.2	655.4	655.4
70°	576.3	580.4	579.1	576.3	574.9
72.5°	499.9	499.9	497.1	495.7	497.1
75°	420.7	419.4	420.7	419.4	420.7
77.5°	343.0	344.4	344.4	344.4	343.0
80°	266.6	266.6	266.6	268.0	269.4
82.5°	195.8	191.6	195.8	193.0	194.4
85°	123.6	122.2	125.0	123.6	120.8
87.5°	55.5	56.9	56.9	58.3	58.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)