

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: P294205

Luminaire Tested: **24GR-LD5-72-FGW080-UNV-L83050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P294205
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-L83050-W2A1-U-3500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6304.0 lumens
Efficiency: N/A
Efficacy: 120.0 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

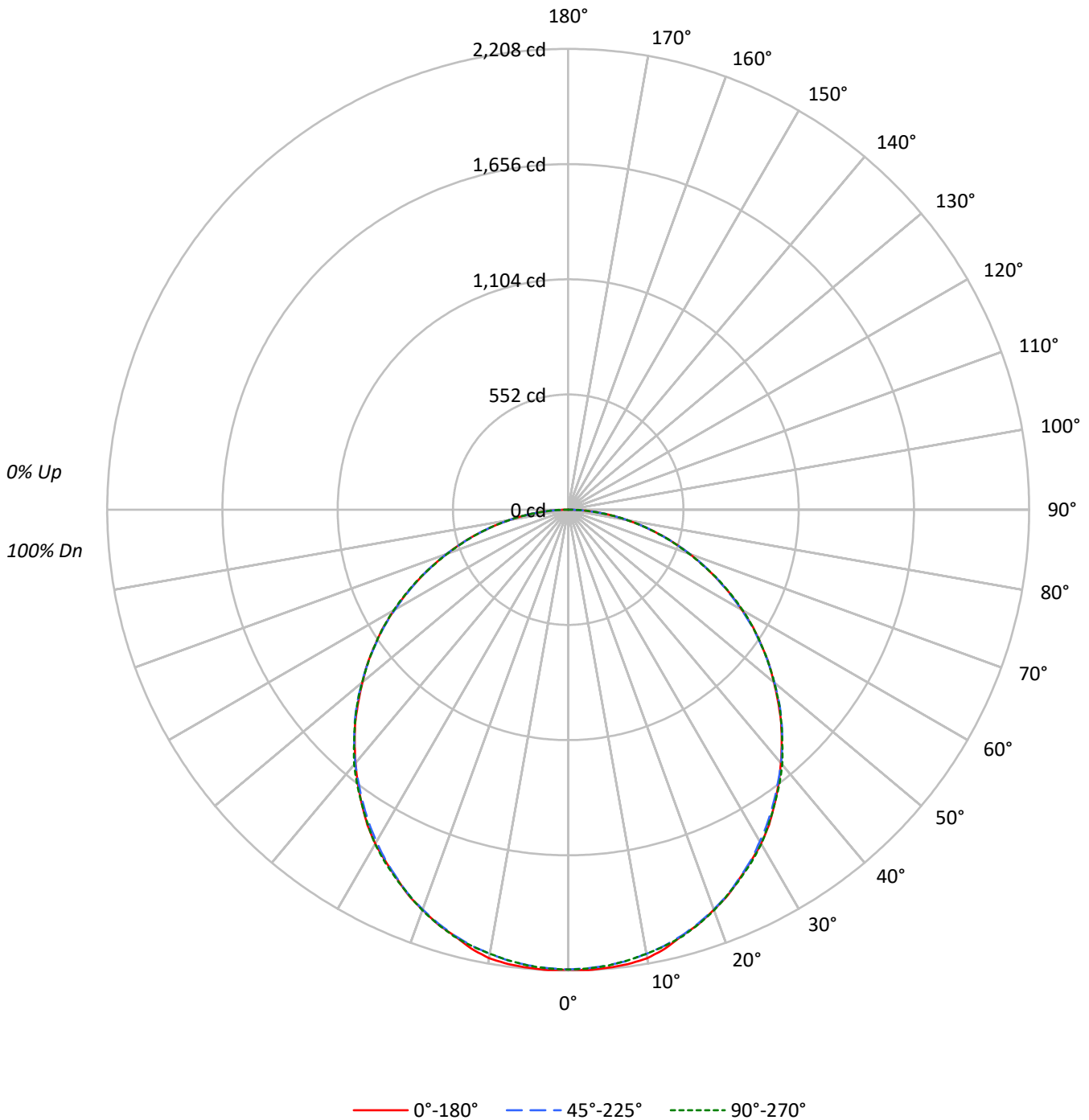
Input Watts (W): 52.545
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2965	2965	2965
5°	2976	2960	2962
10°	2982	2951	2951
15°	2943	2941	2947
20°	2921	2919	2925
25°	2889	2887	2896
30°	2871	2853	2873
35°	2830	2816	2830
40°	2784	2786	2802
45°	2744	2753	2747
50°	2692	2701	2695
55°	2651	2643	2651
60°	2588	2580	2605
65°	2509	2518	2528
70°	2427	2439	2421
75°	2342	2342	2342
80°	2212	2212	2235
85°	2042	2066	1996



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	208.3	3.3
10°-20°	595.6	9.4
20°-30°	897.5	14.2
30°-40°	1075.0	17.1
40°-50°	1112.7	17.7
50°-60°	1008.9	16.0
60°-70°	782.2	12.4
70°-80°	475.7	7.5
80°-90°	148.0	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°	1701.4	27.0
0°-40°	2776.4	44.0
0°-60°	4898.1	77.7
0°-90°	6304.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6304.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2203	2203	2203	2203	2203	
5°	2203	2190	2191	2188	2193	210
15°	2113	2114	2111	2104	2116	597
25°	1946	1946	1945	1951	1951	898
35°	1723	1711	1714	1722	1723	1078
45°	1442	1445	1447	1441	1444	1111
55°	1130	1124	1127	1131	1130	1010
65°	788	792	791	788	794	781
75°	450	449	450	449	450	476
85°	132	131	134	132	129	148
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2203.3	2203.3	2203.3	2203.3	2203.3
2.5°	2207.8	2198.9	2198.9	2195.9	2200.3
5°	2203.3	2189.9	2191.4	2188.5	2192.9
7.5°	2195.9	2178.0	2179.5	2176.6	2178.0
10°	2182.5	2161.7	2160.2	2158.7	2160.2
12.5°	2152.8	2140.9	2139.4	2136.4	2140.9
15°	2112.6	2114.1	2111.1	2103.7	2115.6
17.5°	2081.4	2079.9	2076.9	2069.5	2081.4
20°	2039.8	2041.3	2038.3	2035.3	2042.8
22.5°	1999.6	1995.2	1996.7	1995.2	1996.7
25°	1946.1	1946.1	1944.6	1950.6	1950.6
27.5°	1897.1	1891.1	1894.1	1900.0	1903.0
30°	1848.0	1833.1	1836.1	1842.0	1849.5
32.5°	1790.0	1775.1	1778.1	1784.1	1787.0
35°	1723.1	1711.2	1714.2	1721.6	1723.1
37.5°	1654.7	1647.3	1650.3	1656.2	1660.7
40°	1584.8	1581.9	1586.3	1584.8	1595.3
42.5°	1513.5	1512.0	1516.5	1516.5	1517.9
45°	1442.1	1445.1	1446.6	1440.6	1443.6
47.5°	1363.3	1364.8	1370.8	1367.8	1369.3
50°	1286.0	1284.5	1290.5	1292.0	1287.5
52.5°	1211.7	1204.2	1210.2	1213.2	1210.2
55°	1129.9	1124.0	1126.9	1131.4	1129.9
57.5°	1049.6	1043.7	1045.2	1052.6	1049.6
60°	961.9	960.4	958.9	964.9	967.9
62.5°	875.7	874.2	871.2	877.2	880.1
65°	788.0	792.4	790.9	788.0	793.9
67.5°	704.7	709.2	704.7	701.7	701.7
70°	617.0	621.4	620.0	617.0	615.5
72.5°	535.2	535.2	532.2	530.8	532.2
75°	450.5	449.0	450.5	449.0	450.5
77.5°	367.2	368.7	368.7	368.7	367.2
80°	285.5	285.5	285.5	286.9	288.4
82.5°	209.6	205.2	209.6	206.7	208.1
85°	132.3	130.8	133.8	132.3	129.3
87.5°	59.5	61.0	61.0	62.4	62.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)