

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: P294204

Luminaire Tested: **24GR-LD5-72-FGW080-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P294204
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-3000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5957.0 lumens
Efficiency: N/A
Efficacy: 113.6 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

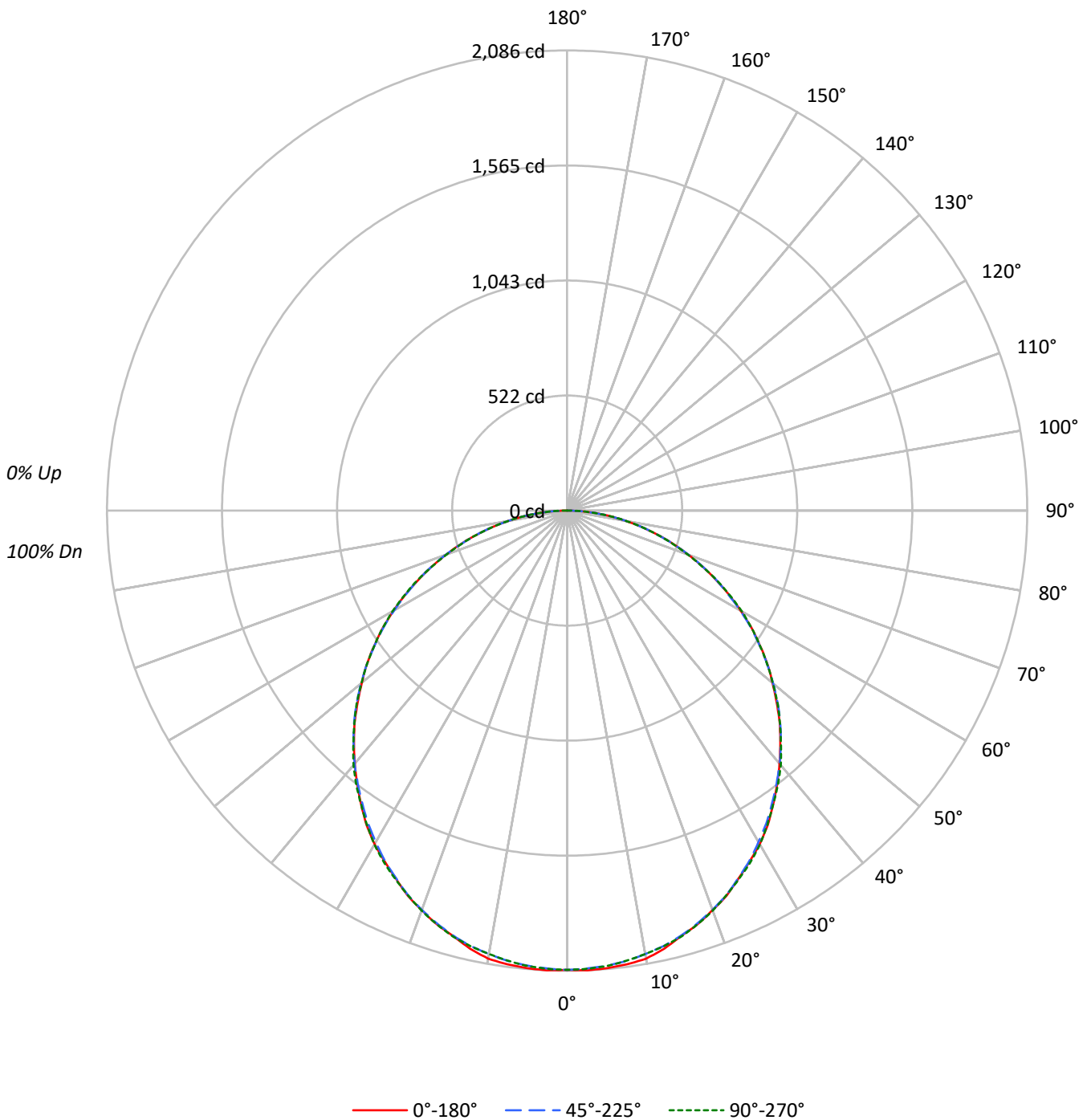
Input Watts (W): 52.452
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2801	2801	2801
5°	2812	2797	2799
10°	2818	2789	2789
15°	2781	2779	2785
20°	2760	2758	2764
25°	2730	2728	2736
30°	2713	2696	2715
35°	2675	2661	2675
40°	2630	2633	2648
45°	2593	2601	2596
50°	2544	2552	2547
55°	2505	2498	2505
60°	2446	2439	2461
65°	2371	2379	2388
70°	2293	2305	2288
75°	2213	2213	2213
80°	2090	2090	2111
85°	1930	1951	1886



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	196.9	3.3
10°-20°	562.8	9.4
20°-30°	848.1	14.2
30°-40°	1015.8	17.1
40°-50°	1051.5	17.7
50°-60°	953.4	16.0
60°-70°	739.2	12.4
70°-80°	449.5	7.5
80°-90°	139.8	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°	1607.8	27.0
0°-40°	2623.6	44.0
0°-60°	4628.5	77.7
0°-90°	5957.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5957.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2082	2082	2082	2082	2082	
5°	2082	2069	2071	2068	2072	198
15°	1996	1998	1995	1988	1999	564
25°	1839	1839	1838	1843	1843	849
35°	1628	1617	1620	1627	1628	1019
45°	1363	1366	1367	1361	1364	1050
55°	1068	1062	1065	1069	1068	954
65°	745	749	747	745	750	738
75°	426	424	426	424	426	450
85°	125	124	126	125	122	140
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2082.0	2082.0	2082.0	2082.0	2082.0
2.5°	2086.3	2077.8	2077.8	2075.0	2079.2
5°	2082.0	2069.4	2070.8	2068.0	2072.2
7.5°	2075.0	2058.2	2059.6	2056.8	2058.2
10°	2062.4	2042.7	2041.3	2039.9	2041.3
12.5°	2034.3	2023.0	2021.6	2018.8	2023.0
15°	1996.3	1997.7	1994.9	1987.9	1999.2
17.5°	1966.8	1965.4	1962.6	1955.6	1966.8
20°	1927.5	1928.9	1926.1	1923.3	1930.3
22.5°	1889.6	1885.4	1886.8	1885.4	1886.8
25°	1839.0	1839.0	1837.6	1843.2	1843.2
27.5°	1792.6	1787.0	1789.8	1795.4	1798.3
30°	1746.3	1732.2	1735.0	1740.7	1747.7
32.5°	1691.5	1677.4	1680.2	1685.9	1688.7
35°	1628.3	1617.0	1619.8	1626.9	1628.3
37.5°	1563.6	1556.6	1559.4	1565.0	1569.3
40°	1497.6	1494.8	1499.0	1497.6	1507.4
42.5°	1430.2	1428.8	1433.0	1433.0	1434.4
45°	1362.7	1365.5	1367.0	1361.3	1364.1
47.5°	1288.3	1289.7	1295.3	1292.5	1293.9
50°	1215.2	1213.8	1219.4	1220.8	1216.6
52.5°	1145.0	1138.0	1143.6	1146.4	1143.6
55°	1067.7	1062.1	1064.9	1069.1	1067.7
57.5°	991.8	986.2	987.6	994.7	991.8
60°	909.0	907.6	906.2	911.8	914.6
62.5°	827.5	826.1	823.3	828.9	831.7
65°	744.6	748.8	747.4	744.6	750.2
67.5°	665.9	670.1	665.9	663.1	663.1
70°	583.0	587.2	585.8	583.0	581.6
72.5°	505.8	505.8	502.9	501.5	502.9
75°	425.7	424.3	425.7	424.3	425.7
77.5°	347.0	348.4	348.4	348.4	347.0
80°	269.7	269.7	269.7	271.1	272.5
82.5°	198.1	193.9	198.1	195.3	196.7
85°	125.0	123.6	126.4	125.0	122.2
87.5°	56.2	57.6	57.6	59.0	59.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)