

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: P294203

Luminaire Tested: **24GR-LD5-64-FGW080-UNV-L83050-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P294203
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-LD5-64-FGW080-UNV-L83050-W2A1-U-5000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5914.0 lumens
Efficiency: N/A
Efficacy: 122.8 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

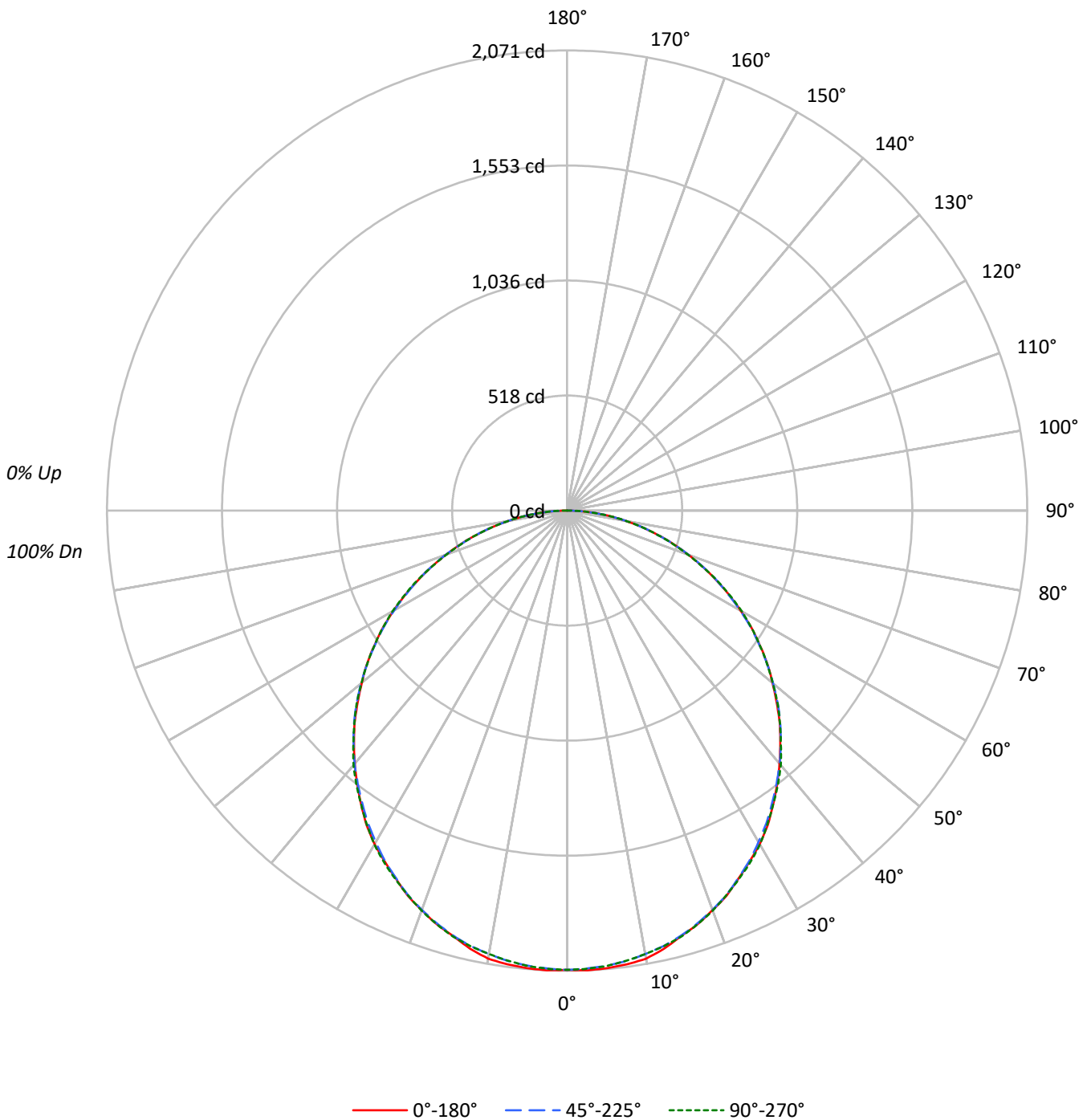
Input Watts (W): 48.174
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2781	2781	2781
5°	2792	2777	2779
10°	2797	2769	2769
15°	2761	2759	2765
20°	2740	2738	2744
25°	2710	2708	2717
30°	2694	2676	2696
35°	2655	2641	2655
40°	2611	2614	2629
45°	2574	2582	2577
50°	2525	2534	2528
55°	2487	2480	2487
60°	2428	2421	2443
65°	2353	2362	2371
70°	2277	2288	2271
75°	2197	2197	2197
80°	2075	2075	2097
85°	1916	1937	1873



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	195.4	3.3
10°-20°	558.7	9.4
20°-30°	842.0	14.2
30°-40°	1008.5	17.1
40°-50°	1043.9	17.7
50°-60°	946.5	16.0
60°-70°	733.8	12.4
70°-80°	446.3	7.5
80°-90°	138.8	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°	1596.2	27.0
0°-40°	2604.6	44.0
0°-60°	4595.1	77.7
0°-90°	5914.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5914.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2067	2067	2067	2067	2067	
5°	2067	2054	2056	2053	2057	197
15°	1982	1983	1980	1974	1985	560
25°	1826	1826	1824	1830	1830	843
35°	1616	1605	1608	1615	1616	1011
45°	1353	1356	1357	1352	1354	1042
55°	1060	1054	1057	1061	1060	947
65°	739	743	742	739	745	733
75°	423	421	423	421	423	446
85°	124	123	126	124	121	139
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2067.0	2067.0	2067.0	2067.0	2067.0
2.5°	2071.2	2062.8	2062.8	2060.0	2064.2
5°	2067.0	2054.5	2055.9	2053.1	2057.2
7.5°	2060.0	2043.3	2044.7	2041.9	2043.3
10°	2047.5	2028.0	2026.6	2025.2	2026.6
12.5°	2019.6	2008.4	2007.0	2004.2	2008.4
15°	1981.9	1983.3	1980.5	1973.6	1984.7
17.5°	1952.6	1951.2	1948.5	1941.5	1952.6
20°	1913.6	1915.0	1912.2	1909.4	1916.4
22.5°	1875.9	1871.7	1873.1	1871.7	1873.1
25°	1825.7	1825.7	1824.3	1829.9	1829.9
27.5°	1779.7	1774.1	1776.9	1782.5	1785.3
30°	1733.7	1719.7	1722.5	1728.1	1735.1
32.5°	1679.3	1665.3	1668.1	1673.7	1676.5
35°	1616.5	1605.4	1608.1	1615.1	1616.5
37.5°	1552.4	1545.4	1548.2	1553.7	1557.9
40°	1486.8	1484.0	1488.2	1486.8	1496.6
42.5°	1419.8	1418.5	1422.6	1422.6	1424.0
45°	1352.9	1355.7	1357.1	1351.5	1354.3
47.5°	1279.0	1280.4	1286.0	1283.2	1284.6
50°	1206.5	1205.1	1210.6	1212.0	1207.8
52.5°	1136.7	1129.7	1135.3	1138.1	1135.3
55°	1060.0	1054.4	1057.2	1061.4	1060.0
57.5°	984.7	979.1	980.5	987.5	984.7
60°	902.4	901.0	899.6	905.2	908.0
62.5°	821.5	820.1	817.3	822.9	825.7
65°	739.2	743.4	742.0	739.2	744.8
67.5°	661.1	665.3	661.1	658.3	658.3
70°	578.8	583.0	581.6	578.8	577.4
72.5°	502.1	502.1	499.3	497.9	499.3
75°	422.6	421.2	422.6	421.2	422.6
77.5°	344.5	345.9	345.9	345.9	344.5
80°	267.8	267.8	267.8	269.2	270.6
82.5°	196.7	192.5	196.7	193.9	195.3
85°	124.1	122.7	125.5	124.1	121.3
87.5°	55.8	57.2	57.2	58.6	58.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)