

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: P294400

Luminaire Tested: **24GR-LD5-64-FGW080-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P294400
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-L92765-W2A1-U-5500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5237.0 lumens
Efficiency: N/A
Efficacy: 110.8 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

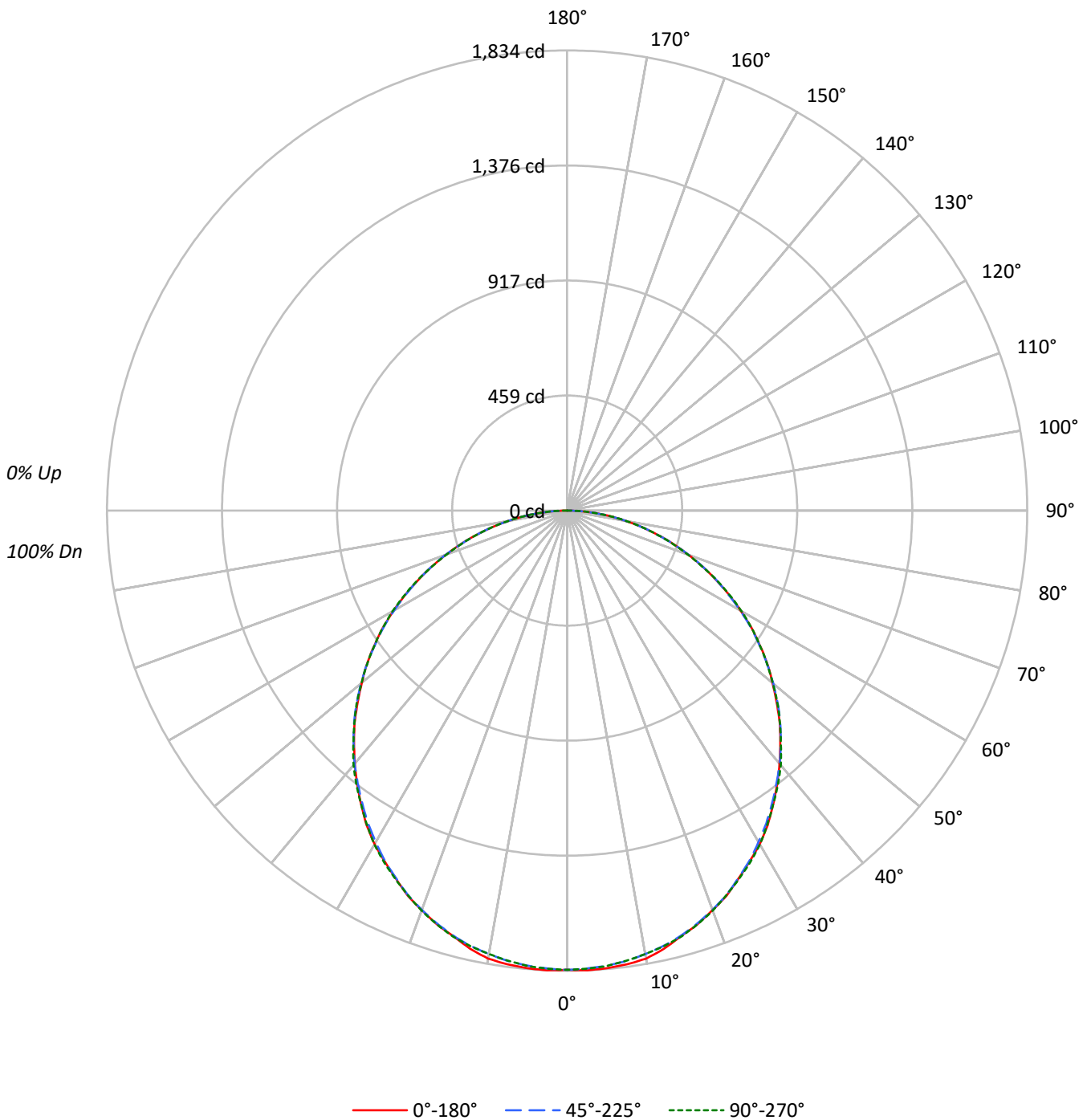
Input Watts (W): 47.244
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	108	103	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83					83			
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69					69			
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58					58			
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49					49			
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	43					43			
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37					37			
7	65	51	42	36	63	50	42	36	48	41	35	47	40	35	46	40	35	33					33			
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29					29			
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26					26			
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2463	2463	2463
5°	2472	2459	2460
10°	2477	2452	2452
15°	2445	2443	2448
20°	2426	2425	2430
25°	2400	2398	2406
30°	2385	2370	2387
35°	2351	2339	2351
40°	2312	2315	2328
45°	2280	2287	2282
50°	2236	2244	2239
55°	2202	2196	2202
60°	2150	2144	2164
65°	2084	2092	2100
70°	2017	2026	2011
75°	1945	1945	1945
80°	1837	1837	1857
85°	1697	1717	1660



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.1	3.3
10°-20°	494.8	9.4
20°-30°	745.6	14.2
30°-40°	893.0	17.1
40°-50°	924.4	17.7
50°-60°	838.2	16.0
60°-70°	649.8	12.4
70°-80°	395.2	7.5
80°-90°	122.9	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°	1413.4	27.0
0°-40°	2306.5	44.0
0°-60°	4069.0	77.7
0°-90°	5237.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5237.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1830	1830	1830	1830	1830	
5°	1830	1819	1820	1818	1822	174
15°	1755	1756	1754	1748	1758	496
25°	1617	1617	1616	1620	1620	746
35°	1432	1422	1424	1430	1432	895
45°	1198	1200	1202	1197	1199	923
55°	939	934	936	940	939	839
65°	655	658	657	655	660	649
75°	374	373	374	373	374	395
85°	110	109	111	110	108	123
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1830.4	1830.4	1830.4	1830.4	1830.4
2.5°	1834.1	1826.7	1826.7	1824.2	1827.9
5°	1830.4	1819.3	1820.5	1818.0	1821.7
7.5°	1824.2	1809.4	1810.6	1808.2	1809.4
10°	1813.1	1795.8	1794.6	1793.3	1794.6
12.5°	1788.4	1778.5	1777.3	1774.8	1778.5
15°	1755.1	1756.3	1753.8	1747.6	1757.5
17.5°	1729.1	1727.9	1725.4	1719.2	1729.1
20°	1694.5	1695.8	1693.3	1690.8	1697.0
22.5°	1661.2	1657.5	1658.7	1657.5	1658.7
25°	1616.7	1616.7	1615.5	1620.4	1620.4
27.5°	1576.0	1571.0	1573.5	1578.4	1580.9
30°	1535.2	1522.9	1525.3	1530.3	1536.4
32.5°	1487.0	1474.7	1477.2	1482.1	1484.6
35°	1431.5	1421.6	1424.0	1430.2	1431.5
37.5°	1374.6	1368.5	1370.9	1375.9	1379.6
40°	1316.6	1314.1	1317.8	1316.6	1325.2
42.5°	1257.3	1256.1	1259.8	1259.8	1261.0
45°	1198.0	1200.5	1201.7	1196.8	1199.3
47.5°	1132.6	1133.8	1138.7	1136.3	1137.5
50°	1068.3	1067.1	1072.1	1073.3	1069.6
52.5°	1006.6	1000.4	1005.4	1007.8	1005.4
55°	938.7	933.7	936.2	939.9	938.7
57.5°	872.0	867.0	868.3	874.4	872.0
60°	799.1	797.9	796.6	801.6	804.0
62.5°	727.5	726.2	723.8	728.7	731.2
65°	654.6	658.3	657.1	654.6	659.5
67.5°	585.4	589.1	585.4	583.0	583.0
70°	512.6	516.3	515.0	512.6	511.3
72.5°	444.6	444.6	442.2	440.9	442.2
75°	374.2	373.0	374.2	373.0	374.2
77.5°	305.1	306.3	306.3	306.3	305.1
80°	237.1	237.1	237.1	238.4	239.6
82.5°	174.1	170.4	174.1	171.7	172.9
85°	109.9	108.7	111.2	109.9	107.5
87.5°	49.4	50.6	50.6	51.9	51.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)