

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: P293124

Luminaire Tested: **24GR-LD5-48-F1-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293124
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-084-12)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-48-F1-UNV-L92765-W2A1-U-6500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4602.0 lumens
Efficiency: N/A
Efficacy: 133.7 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.25
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

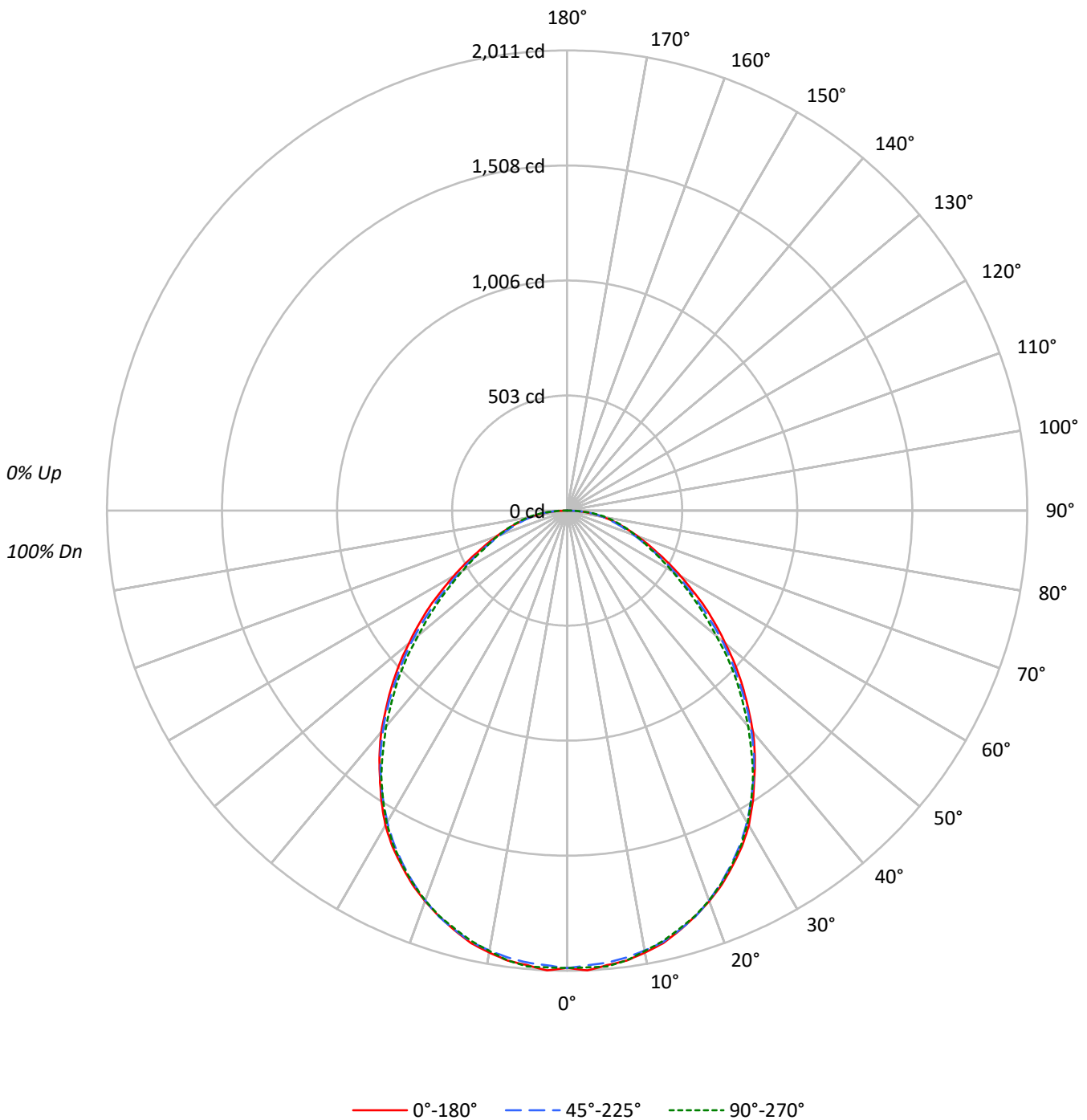
Input Watts (W): 34.41
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	72
3	92	82	74	68	90	81	73	68	78	72	67	75	70	65	72	68	64	62
4	85	73	65	59	83	72	64	58	70	63	58	67	62	57	65	60	56	54
5	78	66	58	51	76	65	57	51	63	56	50	61	55	50	59	54	49	47
6	73	60	51	45	71	59	51	45	57	50	45	56	49	44	54	48	44	42
7	68	55	46	40	66	54	46	40	52	45	40	51	44	40	50	44	39	37
8	63	50	42	36	62	49	42	36	48	41	36	47	40	36	46	40	36	34
9	59	46	38	33	58	46	38	33	44	38	33	43	37	32	42	37	32	31
10	56	43	35	30	54	42	35	30	41	34	30	40	34	30	39	34	30	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2690	2690	2690
5°	2694	2678	2701
10°	2679	2668	2670
15°	2646	2643	2636
20°	2601	2596	2596
25°	2541	2527	2532
30°	2467	2442	2449
35°	2343	2332	2326
40°	2219	2199	2161
45°	2063	2026	1987
50°	1890	1848	1778
55°	1726	1648	1592
60°	1538	1464	1425
65°	1384	1311	1294
70°	1284	1206	1255
75°	1228	1174	1273
80°	1228	1228	1361
85°	1275	1289	1436



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	188.8	4.1
10°-20°	534.2	11.6
20°-30°	784.1	17.0
30°-40°	886.5	19.3
40°-50°	819.3	17.8
50°-60°	631.2	13.7
60°-70°	418.0	9.1
70°-80°	248.8	5.4
80°-90°	91.1	2.0
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°	1507.1	32.7
0°-40°	2393.6	52.0
0°-60°	3844.0	83.5
0°-90°	4602.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4602.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1999	1999	1999	1999	1999	
5°	1994	1994	1983	1984	2000	190
15°	1899	1896	1897	1896	1893	535
25°	1711	1707	1702	1700	1706	788
35°	1427	1425	1420	1413	1416	893
45°	1084	1076	1065	1046	1044	835
55°	736	720	702	683	679	656
65°	435	428	412	408	406	436
75°	236	231	226	236	245	252
85°	83	78	84	92	93	88
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1999.0	1999.0	1999.0	1999.0	1999.0
2.5°	2011.3	2000.9	1989.5	1989.5	1998.1
5°	1994.3	1994.3	1982.9	1983.8	1999.9
7.5°	1983.8	1978.1	1970.5	1970.5	1982.9
10°	1961.0	1956.3	1952.5	1950.6	1954.4
12.5°	1936.4	1928.8	1931.6	1928.8	1927.8
15°	1899.3	1895.5	1897.4	1896.5	1892.7
17.5°	1859.5	1857.6	1861.4	1854.7	1857.6
20°	1816.8	1811.1	1813.0	1809.2	1813.0
22.5°	1768.3	1764.5	1759.8	1755.1	1762.7
25°	1711.4	1706.6	1701.9	1700.0	1705.7
27.5°	1654.4	1646.8	1640.2	1638.3	1646.8
30°	1588.0	1579.5	1571.9	1570.0	1576.6
32.5°	1509.2	1507.3	1497.8	1494.0	1496.9
35°	1426.6	1424.7	1420.0	1413.3	1416.2
37.5°	1347.9	1346.9	1340.3	1328.9	1321.3
40°	1263.4	1256.7	1252.0	1235.8	1230.2
42.5°	1170.4	1168.5	1159.9	1141.9	1135.2
45°	1084.0	1076.4	1065.0	1046.0	1044.1
47.5°	994.8	984.3	973.9	950.1	949.2
50°	902.7	895.1	882.7	859.0	849.5
52.5°	817.3	806.8	789.7	766.9	762.2
55°	735.6	720.4	702.4	683.4	678.7
57.5°	648.3	641.7	619.8	604.6	598.9
60°	571.4	565.7	543.9	529.6	529.6
62.5°	502.1	493.6	474.6	465.1	465.1
65°	434.7	428.1	411.9	408.2	406.3
67.5°	376.8	368.3	356.9	355.9	360.7
70°	326.5	316.1	306.6	316.1	318.9
72.5°	279.1	272.4	263.9	276.2	281.9
75°	236.3	230.7	225.9	236.3	244.9
77.5°	197.4	191.7	191.7	203.1	210.7
80°	158.5	154.7	158.5	168.0	175.6
82.5°	121.5	118.6	123.4	132.9	137.6
85°	82.6	77.8	83.5	92.1	93.0
87.5°	38.9	38.0	41.8	47.5	46.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)