

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: P294270

Luminaire Tested: **24GR-LD5-64-FGW080-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P294270
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-L82765-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: 5449.0 lumens
Efficiency: N/A
Efficacy: 118.1 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

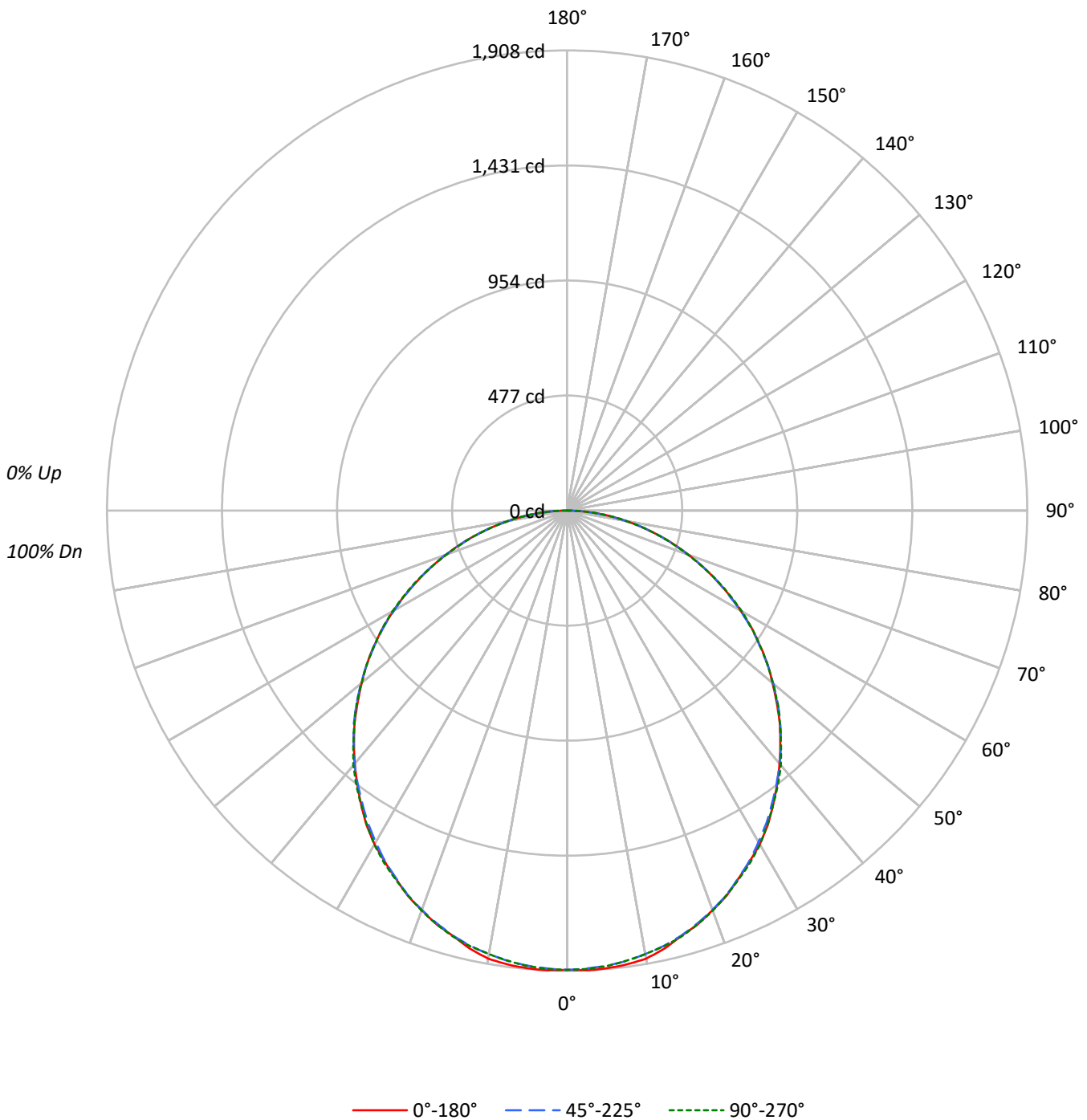
Input Watts (W): 46.128
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2562	2562	2562
5°	2572	2558	2560
10°	2577	2551	2551
15°	2544	2542	2547
20°	2524	2523	2528
25°	2497	2495	2503
30°	2482	2466	2484
35°	2446	2434	2446
40°	2406	2408	2422
45°	2372	2379	2374
50°	2327	2335	2330
55°	2291	2285	2291
60°	2237	2231	2251
65°	2168	2177	2185
70°	2098	2108	2093
75°	2024	2024	2024
80°	1912	1912	1932
85°	1766	1786	1726



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	180.1	3.3
10°-20°	514.8	9.4
20°-30°	775.8	14.2
30°-40°	929.2	17.1
40°-50°	961.8	17.7
50°-60°	872.1	16.0
60°-70°	676.1	12.4
70°-80°	411.2	7.5
80°-90°	127.9	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°	1470.7	27.0
0°-40°	2399.8	44.0
0°-60°	4233.8	77.7
0°-90°	5449.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5449.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1904	1904	1904	1904	1904	
5°	1904	1893	1894	1892	1896	181
15°	1826	1827	1825	1818	1829	516
25°	1682	1682	1681	1686	1686	777
35°	1489	1479	1482	1488	1489	932
45°	1246	1249	1250	1245	1248	960
55°	977	972	974	978	977	873
65°	681	685	684	681	686	675
75°	389	388	389	388	389	411
85°	114	113	116	114	112	128
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1904.5	1904.5	1904.5	1904.5	1904.5
2.5°	1908.3	1900.6	1900.6	1898.1	1901.9
5°	1904.5	1892.9	1894.2	1891.6	1895.5
7.5°	1898.1	1882.6	1883.9	1881.4	1882.6
10°	1886.5	1868.5	1867.2	1865.9	1867.2
12.5°	1860.8	1850.5	1849.2	1846.7	1850.5
15°	1826.1	1827.4	1824.8	1818.4	1828.7
17.5°	1799.1	1797.8	1795.3	1788.8	1799.1
20°	1763.1	1764.4	1761.8	1759.3	1765.7
22.5°	1728.4	1724.6	1725.9	1724.6	1725.9
25°	1682.2	1682.2	1680.9	1686.0	1686.0
27.5°	1639.8	1634.6	1637.2	1642.3	1644.9
30°	1597.4	1584.5	1587.1	1592.2	1598.6
32.5°	1547.2	1534.4	1537.0	1542.1	1544.7
35°	1489.4	1479.1	1481.7	1488.1	1489.4
37.5°	1430.3	1423.9	1426.4	1431.6	1435.4
40°	1369.9	1367.3	1371.2	1369.9	1378.9
42.5°	1308.2	1306.9	1310.8	1310.8	1312.1
45°	1246.5	1249.1	1250.4	1245.2	1247.8
47.5°	1178.4	1179.7	1184.8	1182.3	1183.6
50°	1111.6	1110.3	1115.4	1116.7	1112.9
52.5°	1047.3	1040.9	1046.1	1048.6	1046.1
55°	976.7	971.5	974.1	977.9	976.7
57.5°	907.3	902.1	903.4	909.8	907.3
60°	831.4	830.2	828.9	834.0	836.6
62.5°	756.9	755.6	753.1	758.2	760.8
65°	681.1	684.9	683.7	681.1	686.2
67.5°	609.1	613.0	609.1	606.6	606.6
70°	533.3	537.2	535.9	533.3	532.0
72.5°	462.6	462.6	460.1	458.8	460.1
75°	389.4	388.1	389.4	388.1	389.4
77.5°	317.4	318.7	318.7	318.7	317.4
80°	246.7	246.7	246.7	248.0	249.3
82.5°	181.2	177.3	181.2	178.6	179.9
85°	114.4	113.1	115.7	114.4	111.8
87.5°	51.4	52.7	52.7	54.0	54.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)