

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: P294328

Luminaire Tested: **24GR-LD5-64-FGW080-UNV-L93050-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P294328
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-L93050-W2A1-U-4500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5212.0 lumens
Efficiency: N/A
Efficacy: 108.9 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

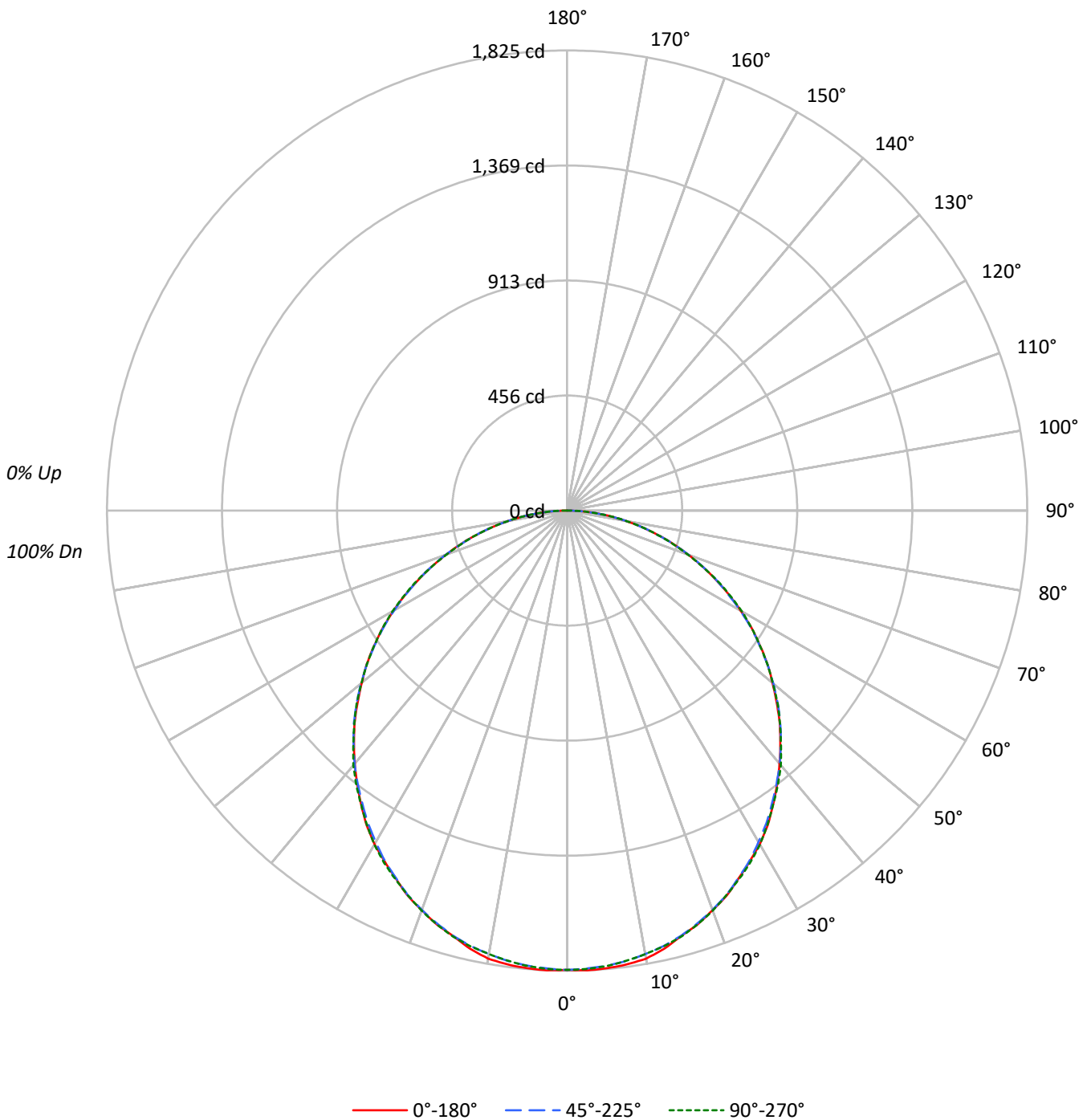
Input Watts (W): 47.871564
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2451	2451	2451
5°	2460	2447	2449
10°	2465	2440	2440
15°	2433	2431	2436
20°	2415	2413	2418
25°	2389	2387	2394
30°	2374	2358	2376
35°	2340	2328	2340
40°	2301	2304	2317
45°	2269	2276	2271
50°	2226	2233	2228
55°	2191	2186	2191
60°	2140	2133	2153
65°	2074	2082	2090
70°	2007	2017	2002
75°	1936	1936	1936
80°	1829	1829	1848
85°	1689	1707	1650



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	172.2	3.3
10°-20°	492.4	9.4
20°-30°	742.1	14.2
30°-40°	888.8	17.1
40°-50°	920.0	17.7
50°-60°	834.2	16.0
60°-70°	646.7	12.4
70°-80°	393.3	7.5
80°-90°	122.4	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°	1406.7	27.0
0°-40°	2295.5	44.0
0°-60°	4049.6	77.7
0°-90°	5212.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5212.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1822	1822	1822	1822	1822	
5°	1822	1811	1812	1809	1813	173
15°	1747	1748	1745	1739	1749	494
25°	1609	1609	1608	1613	1613	743
35°	1425	1415	1417	1423	1425	891
45°	1192	1195	1196	1191	1194	919
55°	934	929	932	935	934	835
65°	652	655	654	652	656	646
75°	372	371	372	371	372	393
85°	109	108	111	109	107	122
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1821.7	1821.7	1821.7	1821.7	1821.7
2.5°	1825.3	1818.0	1818.0	1815.5	1819.2
5°	1821.7	1810.6	1811.8	1809.4	1813.0
7.5°	1815.5	1800.8	1802.0	1799.5	1800.8
10°	1804.4	1787.2	1786.0	1784.8	1786.0
12.5°	1779.9	1770.0	1768.8	1766.3	1770.0
15°	1746.7	1747.9	1745.4	1739.3	1749.1
17.5°	1720.9	1719.6	1717.2	1711.0	1720.9
20°	1686.4	1687.7	1685.2	1682.8	1688.9
22.5°	1653.3	1649.6	1650.8	1649.6	1650.8
25°	1609.0	1609.0	1607.8	1612.7	1612.7
27.5°	1568.4	1563.5	1566.0	1570.9	1573.4
30°	1527.9	1515.6	1518.0	1523.0	1529.1
32.5°	1479.9	1467.6	1470.1	1475.0	1477.5
35°	1424.6	1414.8	1417.3	1423.4	1424.6
37.5°	1368.1	1361.9	1364.4	1369.3	1373.0
40°	1310.3	1307.9	1311.5	1310.3	1318.9
42.5°	1251.3	1250.1	1253.8	1253.8	1255.0
45°	1192.3	1194.8	1196.0	1191.1	1193.5
47.5°	1127.2	1128.4	1133.3	1130.9	1132.1
50°	1063.2	1062.0	1066.9	1068.2	1064.5
52.5°	1001.8	995.6	1000.6	1003.0	1000.6
55°	934.2	929.3	931.7	935.4	934.2
57.5°	867.8	862.9	864.1	870.3	867.8
60°	795.3	794.1	792.8	797.7	800.2
62.5°	724.0	722.8	720.3	725.2	727.7
65°	651.5	655.2	653.9	651.5	656.4
67.5°	582.6	586.3	582.6	580.2	580.2
70°	510.1	513.8	512.6	510.1	508.9
72.5°	442.5	442.5	440.0	438.8	440.0
75°	372.4	371.2	372.4	371.2	372.4
77.5°	303.6	304.8	304.8	304.8	303.6
80°	236.0	236.0	236.0	237.2	238.5
82.5°	173.3	169.6	173.3	170.9	172.1
85°	109.4	108.2	110.6	109.4	106.9
87.5°	49.2	50.4	50.4	51.6	51.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)