

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: P294268

Luminaire Tested: **24GR-LD5-64-FGW080-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P294268
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-2700K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5120.0 lumens
Efficiency: N/A
Efficacy: 111.4 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

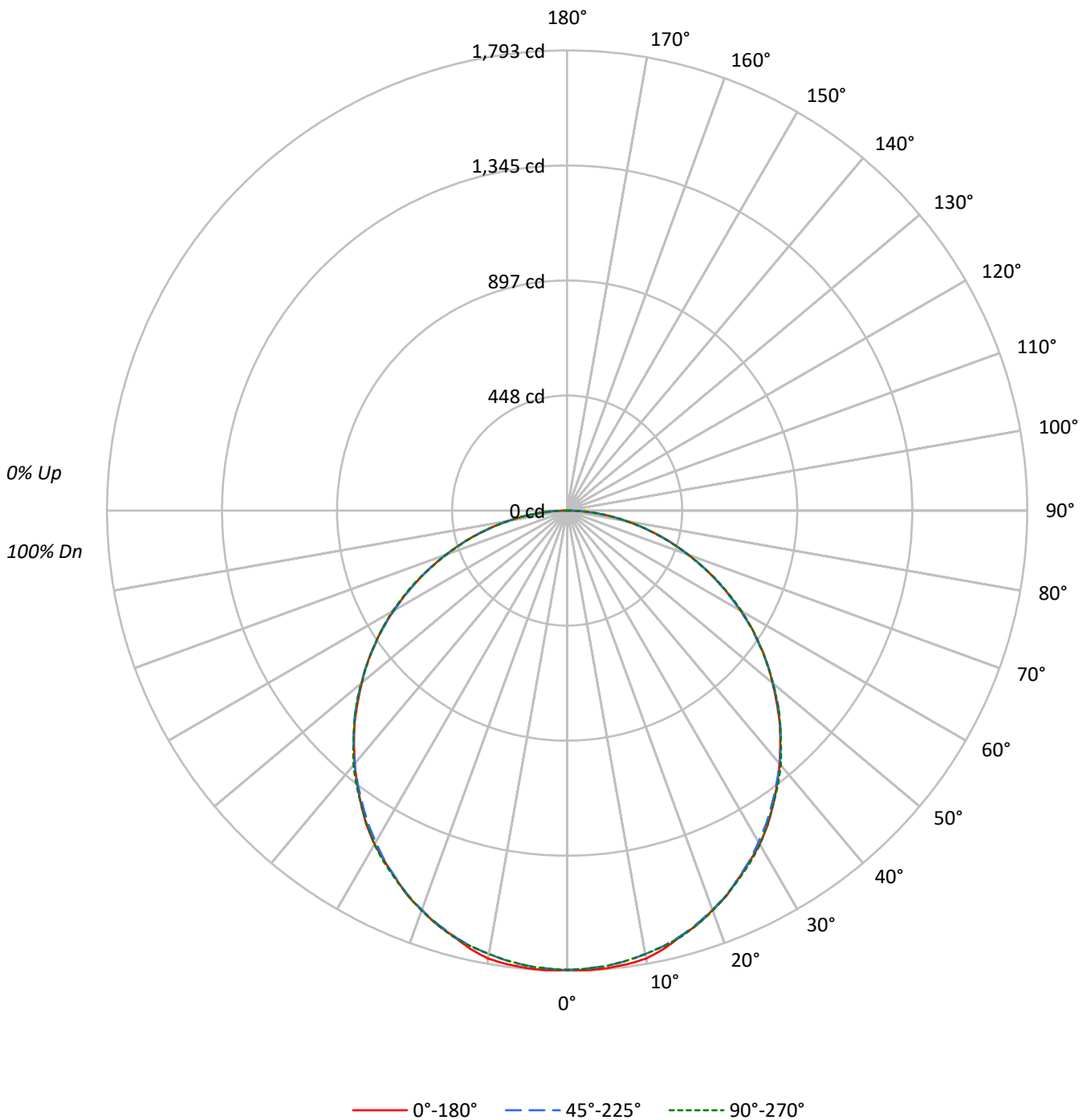
Input Watts (W): 45.942
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2408	2408	2408
5°	2417	2404	2405
10°	2422	2397	2397
15°	2390	2388	2394
20°	2372	2370	2376
25°	2347	2345	2352
30°	2332	2317	2334
35°	2299	2287	2299
40°	2261	2263	2276
45°	2229	2236	2231
50°	2186	2194	2189
55°	2153	2147	2153
60°	2102	2096	2115
65°	2038	2045	2053
70°	1971	1981	1967
75°	1902	1902	1902
80°	1796	1796	1815
85°	1660	1678	1623



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.2	3.3
10°-20°	483.7	9.4
20°-30°	729.0	14.2
30°-40°	873.1	17.1
40°-50°	903.8	17.7
50°-60°	819.5	16.0
60°-70°	635.3	12.4
70°-80°	386.4	7.5
80°-90°	120.2	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°	1381.9	27.0
0°-40°	2255.0	44.0
0°-60°	3978.2	77.7
0°-90°	5120.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5120.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1790	1790	1790	1790	1790	
5°	1790	1779	1780	1777	1781	170
15°	1716	1717	1715	1709	1718	485
25°	1581	1581	1579	1584	1584	730
35°	1400	1390	1392	1398	1400	875
45°	1171	1174	1175	1170	1172	902
55°	918	913	915	919	918	820
65°	640	644	642	640	645	635
75°	366	365	366	365	366	386
85°	108	106	109	108	105	120
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1789.5	1789.5	1789.5	1789.5	1789.5
2.5°	1793.1	1785.9	1785.9	1783.5	1787.1
5°	1789.5	1778.6	1779.8	1777.4	1781.0
7.5°	1783.5	1769.0	1770.2	1767.8	1769.0
10°	1772.6	1755.7	1754.5	1753.3	1754.5
12.5°	1748.4	1738.8	1737.6	1735.2	1738.8
15°	1715.8	1717.0	1714.6	1708.6	1718.3
17.5°	1690.5	1689.3	1686.9	1680.8	1690.5
20°	1656.7	1657.9	1655.5	1653.1	1659.1
22.5°	1624.1	1620.5	1621.7	1620.5	1621.7
25°	1580.6	1580.6	1579.4	1584.2	1584.2
27.5°	1540.8	1535.9	1538.3	1543.2	1545.6
30°	1500.9	1488.8	1491.2	1496.1	1502.1
32.5°	1453.8	1441.7	1444.2	1449.0	1451.4
35°	1399.5	1389.8	1392.2	1398.3	1399.5
37.5°	1343.9	1337.9	1340.3	1345.1	1348.8
40°	1287.2	1284.8	1288.4	1287.2	1295.6
42.5°	1229.2	1228.0	1231.6	1231.6	1232.8
45°	1171.3	1173.7	1174.9	1170.1	1172.5
47.5°	1107.3	1108.5	1113.3	1110.9	1112.1
50°	1044.5	1043.3	1048.1	1049.3	1045.7
52.5°	984.1	978.1	982.9	985.3	982.9
55°	917.7	912.9	915.3	918.9	917.7
57.5°	852.5	847.7	848.9	854.9	852.5
60°	781.2	780.0	778.8	783.7	786.1
62.5°	711.2	710.0	707.6	712.4	714.8
65°	640.0	643.6	642.4	640.0	644.8
67.5°	572.3	576.0	572.3	569.9	569.9
70°	501.1	504.7	503.5	501.1	499.9
72.5°	434.7	434.7	432.3	431.1	432.3
75°	365.9	364.7	365.9	364.7	365.9
77.5°	298.2	299.5	299.5	299.5	298.2
80°	231.8	231.8	231.8	233.0	234.3
82.5°	170.3	166.6	170.3	167.8	169.0
85°	107.5	106.3	108.7	107.5	105.1
87.5°	48.3	49.5	49.5	50.7	50.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)