

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: P294263

Luminaire Tested: **24GR-LD5-56-FGW080-UNV-L82765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P294263
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-LD5-56-FGW080-UNV-L82765-W2A1-U-4500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4991.0 lumens
Efficiency: N/A
Efficacy: 125.7 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

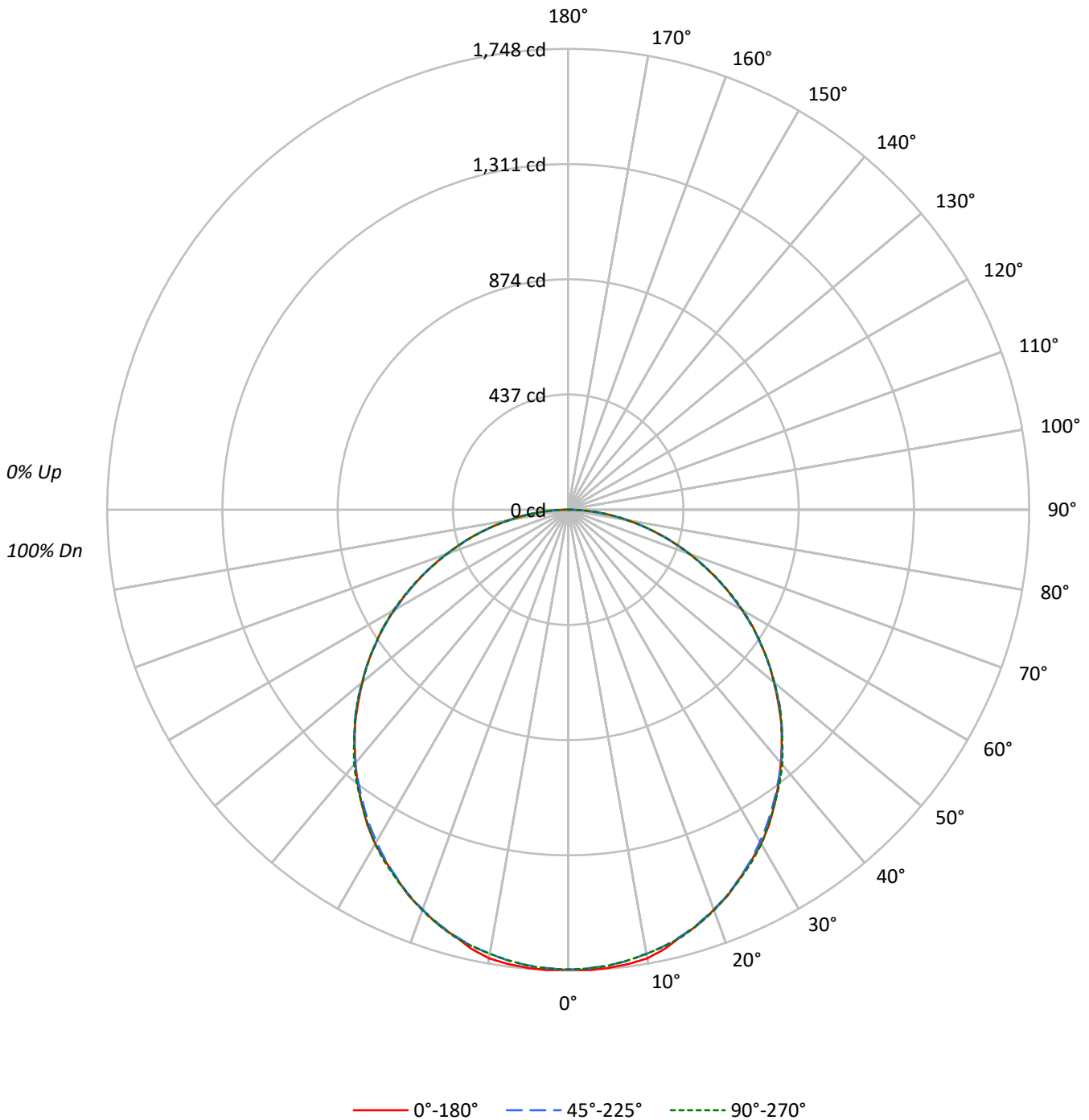
Input Watts (W): 39.711
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2347	2347	2347
5°	2356	2343	2345
10°	2361	2337	2337
15°	2330	2328	2333
20°	2312	2311	2316
25°	2287	2286	2293
30°	2273	2259	2275
35°	2241	2229	2241
40°	2204	2206	2218
45°	2173	2179	2175
50°	2131	2139	2134
55°	2099	2093	2099
60°	2049	2043	2062
65°	1986	1994	2001
70°	1922	1931	1917
75°	1854	1854	1854
80°	1751	1751	1770
85°	1618	1635	1581



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.9	3.3
10°-20°	471.5	9.4
20°-30°	710.6	14.2
30°-40°	851.1	17.1
40°-50°	881.0	17.7
50°-60°	798.8	16.0
60°-70°	619.3	12.4
70°-80°	376.6	7.5
80°-90°	117.2	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°	1347.1	27.0
0°-40°	2198.1	44.0
0°-60°	3877.9	77.7
0°-90°	4991.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4991.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1744	1744	1744	1744	1744	
5°	1744	1734	1735	1733	1736	166
15°	1673	1674	1671	1666	1675	473
25°	1541	1541	1540	1544	1544	711
35°	1364	1355	1357	1363	1364	853
45°	1142	1144	1145	1141	1143	880
55°	895	890	892	896	895	800
65°	624	627	626	624	629	619
75°	357	356	357	356	357	377
85°	105	104	106	105	102	117
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1744.4	1744.4	1744.4	1744.4	1744.4
2.5°	1747.9	1740.9	1740.9	1738.5	1742.1
5°	1744.4	1733.8	1735.0	1732.6	1736.2
7.5°	1738.5	1724.4	1725.6	1723.2	1724.4
10°	1727.9	1711.5	1710.3	1709.1	1710.3
12.5°	1704.4	1695.0	1693.8	1691.4	1695.0
15°	1672.6	1673.8	1671.4	1665.5	1675.0
17.5°	1647.9	1646.7	1644.4	1638.5	1647.9
20°	1614.9	1616.1	1613.8	1611.4	1617.3
22.5°	1583.2	1579.6	1580.8	1579.6	1580.8
25°	1540.8	1540.8	1539.6	1544.3	1544.3
27.5°	1501.9	1497.2	1499.6	1504.3	1506.6
30°	1463.1	1451.3	1453.7	1458.4	1464.3
32.5°	1417.2	1405.4	1407.8	1412.5	1414.8
35°	1364.2	1354.8	1357.2	1363.0	1364.2
37.5°	1310.1	1304.2	1306.5	1311.3	1314.8
40°	1254.8	1252.4	1255.9	1254.8	1263.0
42.5°	1198.3	1197.1	1200.6	1200.6	1201.8
45°	1141.8	1144.1	1145.3	1140.6	1142.9
47.5°	1079.4	1080.5	1085.3	1082.9	1084.1
50°	1018.2	1017.0	1021.7	1022.9	1019.3
52.5°	959.3	953.4	958.1	960.5	958.1
55°	894.6	889.9	892.2	895.7	894.6
57.5°	831.0	826.3	827.5	833.4	831.0
60°	761.6	760.4	759.2	763.9	766.3
62.5°	693.3	692.1	689.8	694.5	696.8
65°	623.8	627.4	626.2	623.8	628.6
67.5°	557.9	561.5	557.9	555.6	555.6
70°	488.5	492.0	490.8	488.5	487.3
72.5°	423.7	423.7	421.4	420.2	421.4
75°	356.7	355.5	356.7	355.5	356.7
77.5°	290.7	291.9	291.9	291.9	290.7
80°	226.0	226.0	226.0	227.2	228.4
82.5°	166.0	162.4	166.0	163.6	164.8
85°	104.8	103.6	105.9	104.8	102.4
87.5°	47.1	48.3	48.3	49.4	49.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)