

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: P294388

Luminaire Tested: **24GR-LD5-56-FGW080-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P294388
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-L92765-W2A1-U-4000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4340.0 lumens
Efficiency: N/A
Efficacy: 110.1 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

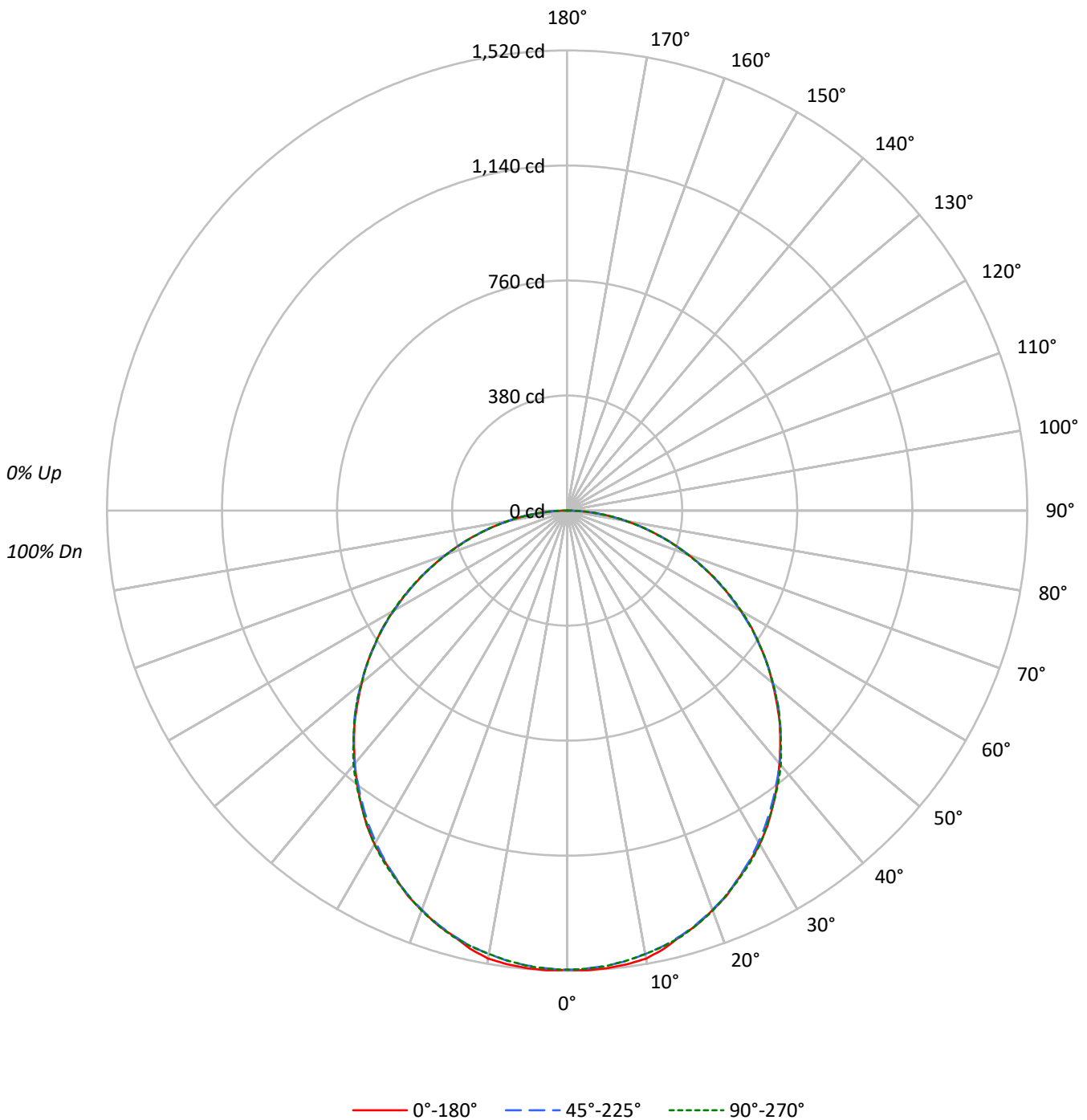
Input Watts (W): 39.432
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2041	2041	2041
5°	2049	2038	2039
10°	2053	2032	2032
15°	2026	2025	2029
20°	2011	2009	2014
25°	1989	1988	1994
30°	1977	1964	1978
35°	1949	1938	1949
40°	1916	1918	1929
45°	1889	1895	1891
50°	1853	1860	1855
55°	1825	1820	1825
60°	1782	1777	1793
65°	1727	1734	1740
70°	1671	1679	1667
75°	1612	1612	1612
80°	1523	1523	1539
85°	1406	1422	1374



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.4	3.3
10°-20°	410.0	9.4
20°-30°	617.9	14.2
30°-40°	740.1	17.1
40°-50°	766.1	17.7
50°-60°	694.6	16.0
60°-70°	538.5	12.4
70°-80°	327.5	7.5
80°-90°	101.9	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°	1171.4	27.0
0°-40°	1911.4	44.0
0°-60°	3372.1	77.7
0°-90°	4340.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4340.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1517	1517	1517	1517	1517	
5°	1517	1508	1509	1507	1510	144
15°	1454	1456	1453	1448	1456	411
25°	1340	1340	1339	1343	1343	618
35°	1186	1178	1180	1185	1186	742
45°	993	995	996	992	994	765
55°	778	774	776	779	778	695
65°	542	546	544	542	547	538
75°	310	309	310	309	310	328
85°	91	90	92	91	89	102
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1516.9	1516.9	1516.9	1516.9	1516.9
2.5°	1520.0	1513.8	1513.8	1511.8	1514.8
5°	1516.9	1507.7	1508.7	1506.6	1509.7
7.5°	1511.8	1499.5	1500.5	1498.5	1499.5
10°	1502.6	1488.2	1487.2	1486.2	1487.2
12.5°	1482.1	1473.9	1472.9	1470.8	1473.9
15°	1454.4	1455.5	1453.4	1448.3	1456.5
17.5°	1432.9	1431.9	1429.9	1424.8	1432.9
20°	1404.3	1405.3	1403.3	1401.2	1406.3
22.5°	1376.7	1373.6	1374.6	1373.6	1374.6
25°	1339.8	1339.8	1338.8	1342.9	1342.9
27.5°	1306.0	1301.9	1304.0	1308.1	1310.1
30°	1272.3	1262.0	1264.1	1268.2	1273.3
32.5°	1232.3	1222.1	1224.1	1228.2	1230.3
35°	1186.3	1178.1	1180.1	1185.3	1186.3
37.5°	1139.2	1134.1	1136.1	1140.2	1143.3
40°	1091.1	1089.0	1092.1	1091.1	1098.3
42.5°	1042.0	1040.9	1044.0	1044.0	1045.0
45°	992.8	994.9	995.9	991.8	993.9
47.5°	938.6	939.6	943.7	941.7	942.7
50°	885.4	884.3	888.4	889.5	886.4
52.5°	834.2	829.1	833.2	835.2	833.2
55°	777.9	773.8	775.8	778.9	777.9
57.5°	722.6	718.5	719.5	724.7	722.6
60°	662.2	661.2	660.2	664.3	666.3
62.5°	602.9	601.8	599.8	603.9	605.9
65°	542.5	545.5	544.5	542.5	546.6
67.5°	485.2	488.2	485.2	483.1	483.1
70°	424.8	427.8	426.8	424.8	423.7
72.5°	368.5	368.5	366.4	365.4	366.4
75°	310.1	309.1	310.1	309.1	310.1
77.5°	252.8	253.8	253.8	253.8	252.8
80°	196.5	196.5	196.5	197.5	198.6
82.5°	144.3	141.2	144.3	142.3	143.3
85°	91.1	90.1	92.1	91.1	89.0
87.5°	40.9	42.0	42.0	43.0	43.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)