

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: P294325

Luminaire Tested: **24GR-LD5-64-FGW080-UNV-L93050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P294325
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-3000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4341.0 lumens
Efficiency: N/A
Efficacy: 92.4 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

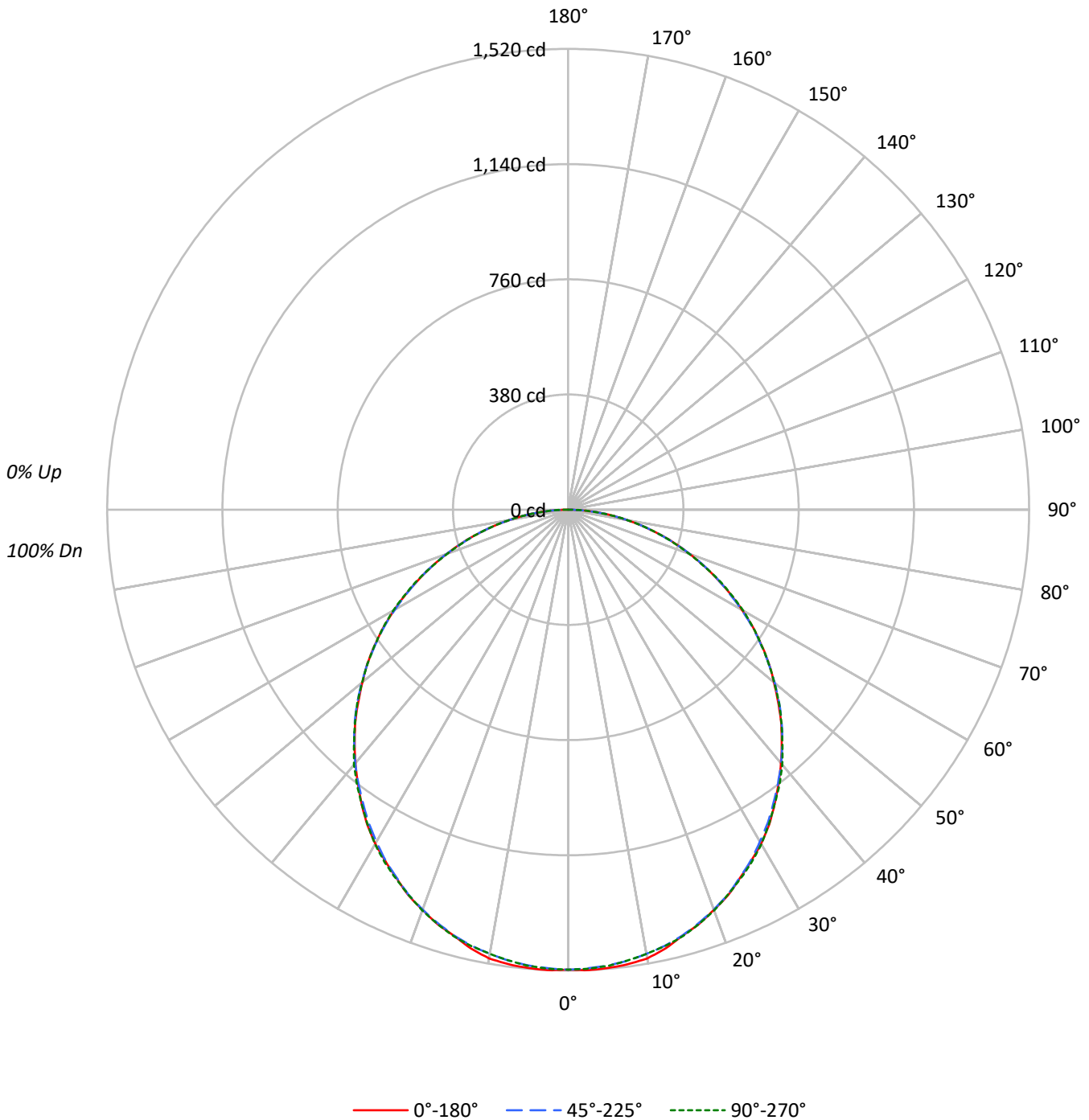
Input Watts (W): 46.998666
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	2040
10°	2053	2032	2032
15°	2026	2025	2029
20°	2011	2010	2014
25°	1989	1988	1994
30°	1977	1964	1979
35°	1949	1939	1949
40°	1917	1919	1929
45°	1890	1895	1892
50°	1854	1860	1856
55°	1825	1820	1825
60°	1783	1777	1794
65°	1727	1734	1741
70°	1672	1679	1667
75°	1613	1613	1613
80°	1523	1523	1539
85°	1406	1422	1376



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.5	3.3
10°-20°	410.1	9.4
20°-30°	618.0	14.2
30°-40°	740.2	17.1
40°-50°	766.2	17.7
50°-60°	694.8	16.0
60°-70°	538.6	12.4
70°-80°	327.6	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°	1171.6	27.0
0°-40°	1911.9	44.0
0°-60°	3372.9	77.7
0°-90°	4341.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4341.0	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°	1455	1456	1454	1449	1457	411
25°	1340	1340	1339	1343	1343	619
35°	1187	1178	1180	1186	1187	742
45°	993	995	996	992	994	765
55°	778	774	776	779	778	695
65°	543	546	545	543	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°	1517.2	1517.2	1517.2	1517.2	1517.2
2.5°	1520.3	1514.2	1514.2	1512.1	1515.2
5°	1517.2	1508.0	1509.0	1507.0	1510.1
7.5°	1512.1	1499.8	1500.8	1498.8	1499.8
10°	1502.9	1488.6	1487.5	1486.5	1487.5
12.5°	1482.4	1474.2	1473.2	1471.2	1474.2
15°	1454.8	1455.8	1453.8	1448.6	1456.8
17.5°	1433.3	1432.3	1430.2	1425.1	1433.3
20°	1404.6	1405.6	1403.6	1401.5	1406.7
22.5°	1377.0	1373.9	1374.9	1373.9	1374.9
25°	1340.1	1340.1	1339.1	1343.2	1343.2
27.5°	1306.3	1302.2	1304.3	1308.4	1310.4
30°	1272.5	1262.3	1264.4	1268.5	1273.6
32.5°	1232.6	1222.4	1224.4	1228.5	1230.6
35°	1186.6	1178.4	1180.4	1185.5	1186.6
37.5°	1139.5	1134.3	1136.4	1140.5	1143.6
40°	1091.3	1089.3	1092.4	1091.3	1098.5
42.5°	1042.2	1041.2	1044.2	1044.2	1045.3
45°	993.1	995.1	996.1	992.0	994.1
47.5°	938.8	939.8	943.9	941.9	942.9
50°	885.6	884.5	888.6	889.7	886.6
52.5°	834.4	829.3	833.3	835.4	833.3
55°	778.1	774.0	776.0	779.1	778.1
57.5°	722.8	718.7	719.7	724.8	722.8
60°	662.4	661.4	660.3	664.4	666.5
62.5°	603.0	602.0	599.9	604.0	606.1
65°	542.6	545.7	544.6	542.6	546.7
67.5°	485.3	488.3	485.3	483.2	483.2
70°	424.9	427.9	426.9	424.9	423.8
72.5°	368.6	368.6	366.5	365.5	366.5
75°	310.2	309.2	310.2	309.2	310.2
77.5°	252.9	253.9	253.9	253.9	252.9
80°	196.6	196.6	196.6	197.6	198.6
82.5°	144.4	141.3	144.4	142.3	143.3
85°	91.1	90.1	92.1	91.1	89.1
87.5°	41.0	42.0	42.0	43.0	43.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)