

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: P294250

Luminaire Tested: **24GR-LD5-48-FGW080-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P294250
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-LD5-48-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: 3880.0 lumens
Efficiency: N/A
Efficacy: 118.2 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

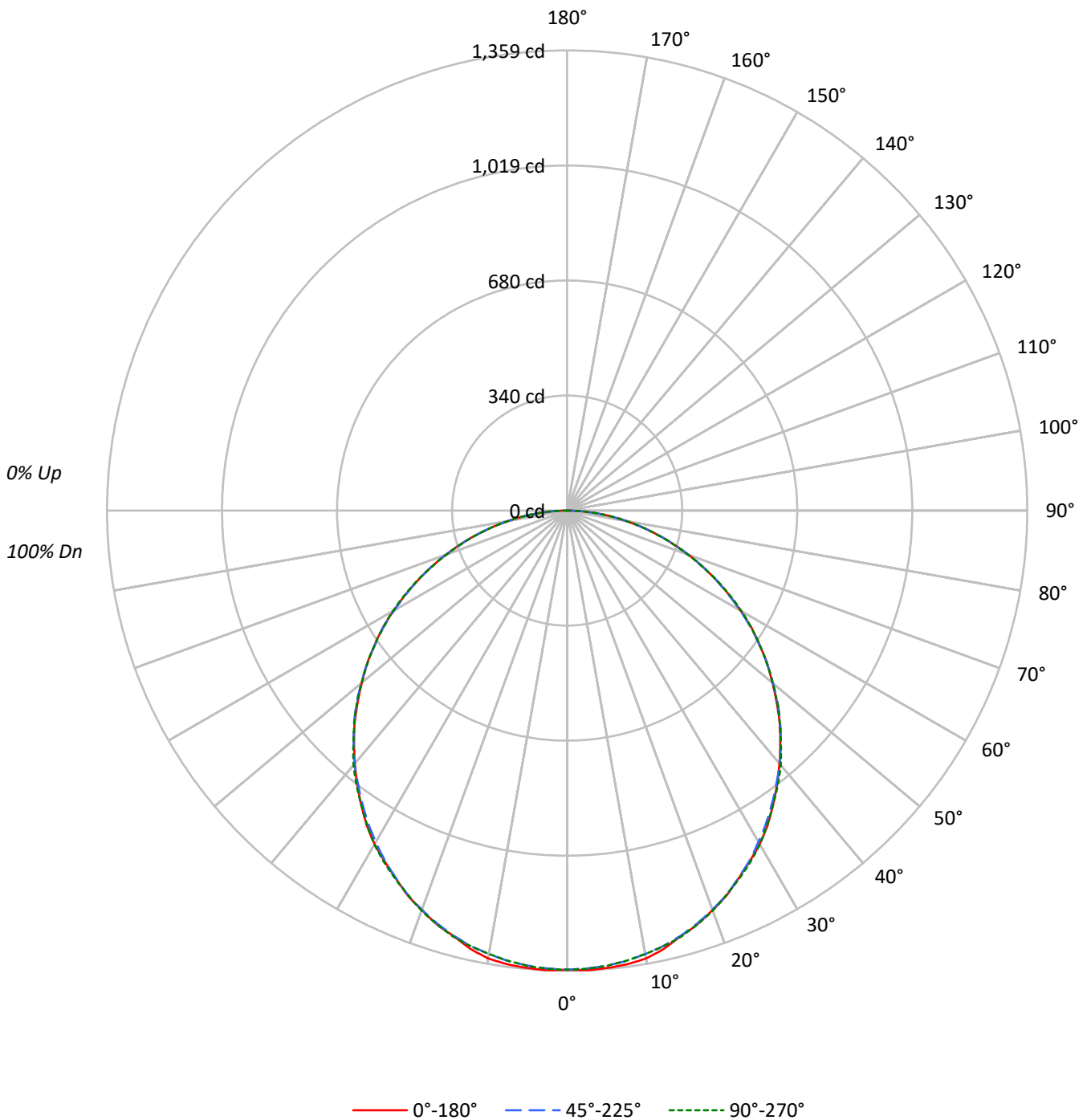
Input Watts (W): 32.829
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1825	1825	1825
5°	1832	1822	1823
10°	1835	1817	1817
15°	1811	1810	1814
20°	1798	1796	1800
25°	1778	1777	1782
30°	1767	1756	1769
35°	1742	1733	1742
40°	1713	1715	1724
45°	1689	1694	1691
50°	1657	1663	1659
55°	1631	1627	1631
60°	1593	1588	1603
65°	1544	1550	1556
70°	1494	1501	1490
75°	1442	1442	1442
80°	1361	1361	1375
85°	1257	1272	1229



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.2	3.3
10°-20°	366.6	9.4
20°-30°	552.4	14.2
30°-40°	661.6	17.1
40°-50°	684.9	17.7
50°-60°	621.0	16.0
60°-70°	481.4	12.4
70°-80°	292.8	7.5
80°-90°	91.1	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°	1047.2	27.0
0°-40°	1708.8	44.0
0°-60°	3014.7	77.7
0°-90°	3880.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3880.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1356	1356	1356	1356	1356	
5°	1356	1348	1349	1347	1350	129
15°	1300	1301	1299	1295	1302	368
25°	1198	1198	1197	1200	1200	553
35°	1060	1053	1055	1060	1060	663
45°	888	889	890	887	888	684
55°	695	692	694	696	695	622
65°	485	488	487	485	489	481
75°	277	276	277	276	277	293
85°	81	80	82	81	80	91
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1356.1	1356.1	1356.1	1356.1	1356.1
2.5°	1358.8	1353.4	1353.4	1351.5	1354.3
5°	1356.1	1347.9	1348.8	1347.0	1349.7
7.5°	1351.5	1340.5	1341.5	1339.6	1340.5
10°	1343.3	1330.5	1329.6	1328.7	1329.6
12.5°	1325.0	1317.7	1316.8	1314.9	1317.7
15°	1300.3	1301.2	1299.4	1294.8	1302.1
17.5°	1281.1	1280.2	1278.3	1273.8	1281.1
20°	1255.4	1256.4	1254.5	1252.7	1257.3
22.5°	1230.7	1228.0	1228.9	1228.0	1228.9
25°	1197.8	1197.8	1196.9	1200.5	1200.5
27.5°	1167.6	1163.9	1165.8	1169.4	1171.3
30°	1137.4	1128.3	1130.1	1133.7	1138.3
32.5°	1101.7	1092.6	1094.4	1098.1	1099.9
35°	1060.5	1053.2	1055.1	1059.6	1060.5
37.5°	1018.5	1013.9	1015.7	1019.4	1022.1
40°	975.4	973.6	976.4	975.4	981.8
42.5°	931.5	930.6	933.4	933.4	934.3
45°	887.6	889.4	890.3	886.7	888.5
47.5°	839.1	840.0	843.7	841.8	842.8
50°	791.5	790.6	794.3	795.2	792.4
52.5°	745.8	741.2	744.9	746.7	744.9
55°	695.4	691.8	693.6	696.4	695.4
57.5°	646.0	642.4	643.3	647.9	646.0
60°	592.0	591.1	590.2	593.9	595.7
62.5°	539.0	538.0	536.2	539.9	541.7
65°	485.0	487.7	486.8	485.0	488.6
67.5°	433.7	436.5	433.7	431.9	431.9
70°	379.7	382.5	381.6	379.7	378.8
72.5°	329.4	329.4	327.6	326.7	327.6
75°	277.3	276.3	277.3	276.3	277.3
77.5°	226.0	226.9	226.9	226.9	226.0
80°	175.7	175.7	175.7	176.6	177.5
82.5°	129.0	126.3	129.0	127.2	128.1
85°	81.4	80.5	82.4	81.4	79.6
87.5°	36.6	37.5	37.5	38.4	38.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)