

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: P294317

Luminaire Tested: **24GR-LD5-48-FGW080-UNV-L93050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P294317
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-L93050-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: 3881.0 lumens
Efficiency: N/A
Efficacy: 115.2 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

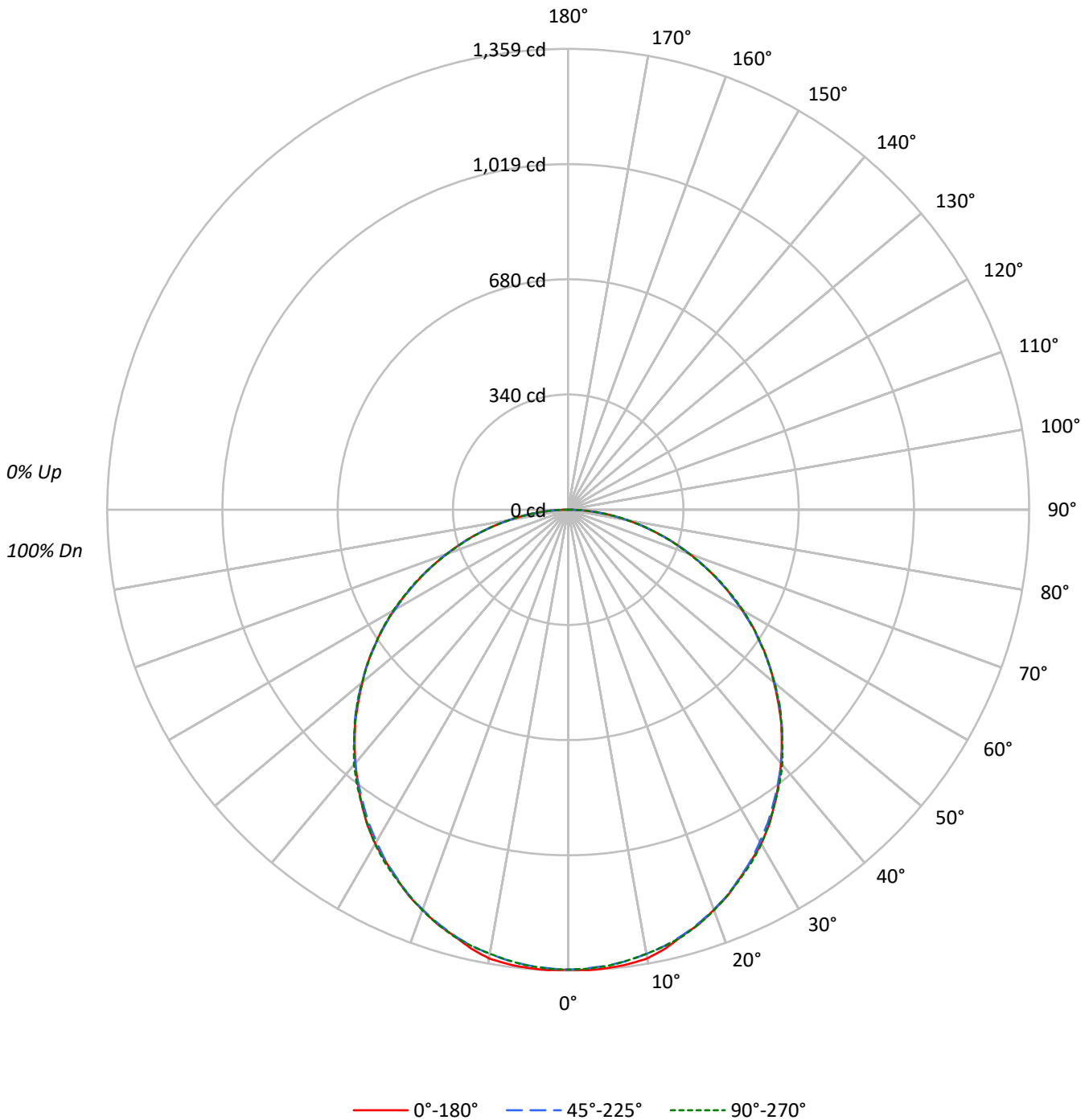
Input Watts (W): 33.682554
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1836	1817	1817
15°	1812	1810	1814
20°	1798	1797	1801
25°	1779	1777	1783
30°	1768	1756	1769
35°	1742	1733	1742
40°	1714	1715	1725
45°	1689	1695	1691
50°	1657	1663	1659
55°	1632	1628	1632
60°	1594	1589	1604
65°	1544	1550	1556
70°	1494	1502	1491
75°	1442	1442	1442
80°	1361	1361	1376
85°	1258	1272	1229



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.3	3.3
10°-20°	366.7	9.4
20°-30°	552.5	14.2
30°-40°	661.8	17.1
40°-50°	685.0	17.7
50°-60°	621.1	16.0
60°-70°	481.6	12.4
70°-80°	292.9	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°	1047.5	27.0
0°-40°	1709.3	44.0
0°-60°	3015.5	77.7
0°-90°	3881.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3881.0	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°	1301	1302	1300	1295	1302	368
25°	1198	1198	1197	1201	1201	553
35°	1061	1054	1055	1060	1061	664
45°	888	890	891	887	889	684
55°	696	692	694	696	696	622
65°	485	488	487	485	489	481
75°	277	276	277	276	277	293
85°	82	80	82	82	80	91
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1356.5	1356.5	1356.5	1356.5	1356.5
2.5°	1359.2	1353.7	1353.7	1351.9	1354.6
5°	1356.5	1348.2	1349.1	1347.3	1350.0
7.5°	1351.9	1340.9	1341.8	1340.0	1340.9
10°	1343.6	1330.8	1329.9	1329.0	1329.9
12.5°	1325.3	1318.0	1317.1	1315.3	1318.0
15°	1300.6	1301.5	1299.7	1295.1	1302.5
17.5°	1281.4	1280.5	1278.7	1274.1	1281.4
20°	1255.8	1256.7	1254.9	1253.0	1257.6
22.5°	1231.1	1228.3	1229.2	1228.3	1229.2
25°	1198.1	1198.1	1197.2	1200.9	1200.9
27.5°	1167.9	1164.2	1166.1	1169.7	1171.6
30°	1137.7	1128.5	1130.4	1134.0	1138.6
32.5°	1102.0	1092.9	1094.7	1098.3	1100.2
35°	1060.8	1053.5	1055.3	1059.9	1060.8
37.5°	1018.7	1014.1	1016.0	1019.6	1022.4
40°	975.7	973.9	976.6	975.7	982.1
42.5°	931.8	930.8	933.6	933.6	934.5
45°	887.8	889.7	890.6	886.9	888.7
47.5°	839.3	840.2	843.9	842.1	843.0
50°	791.7	790.8	794.5	795.4	792.6
52.5°	746.0	741.4	745.0	746.9	745.0
55°	695.6	692.0	693.8	696.5	695.6
57.5°	646.2	642.5	643.4	648.0	646.2
60°	592.2	591.3	590.4	594.0	595.9
62.5°	539.1	538.2	536.4	540.0	541.8
65°	485.1	487.8	486.9	485.1	488.8
67.5°	433.8	436.6	433.8	432.0	432.0
70°	379.8	382.6	381.7	379.8	378.9
72.5°	329.5	329.5	327.7	326.8	327.7
75°	277.3	276.4	277.3	276.4	277.3
77.5°	226.1	227.0	227.0	227.0	226.1
80°	175.7	175.7	175.7	176.7	177.6
82.5°	129.1	126.3	129.1	127.2	128.1
85°	81.5	80.5	82.4	81.5	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)