

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: P294251

Luminaire Tested: **24GR-LD5-48-FGW080-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P294251
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-3000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3992.0 lumens
Efficiency: N/A
Efficacy: 122.3 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

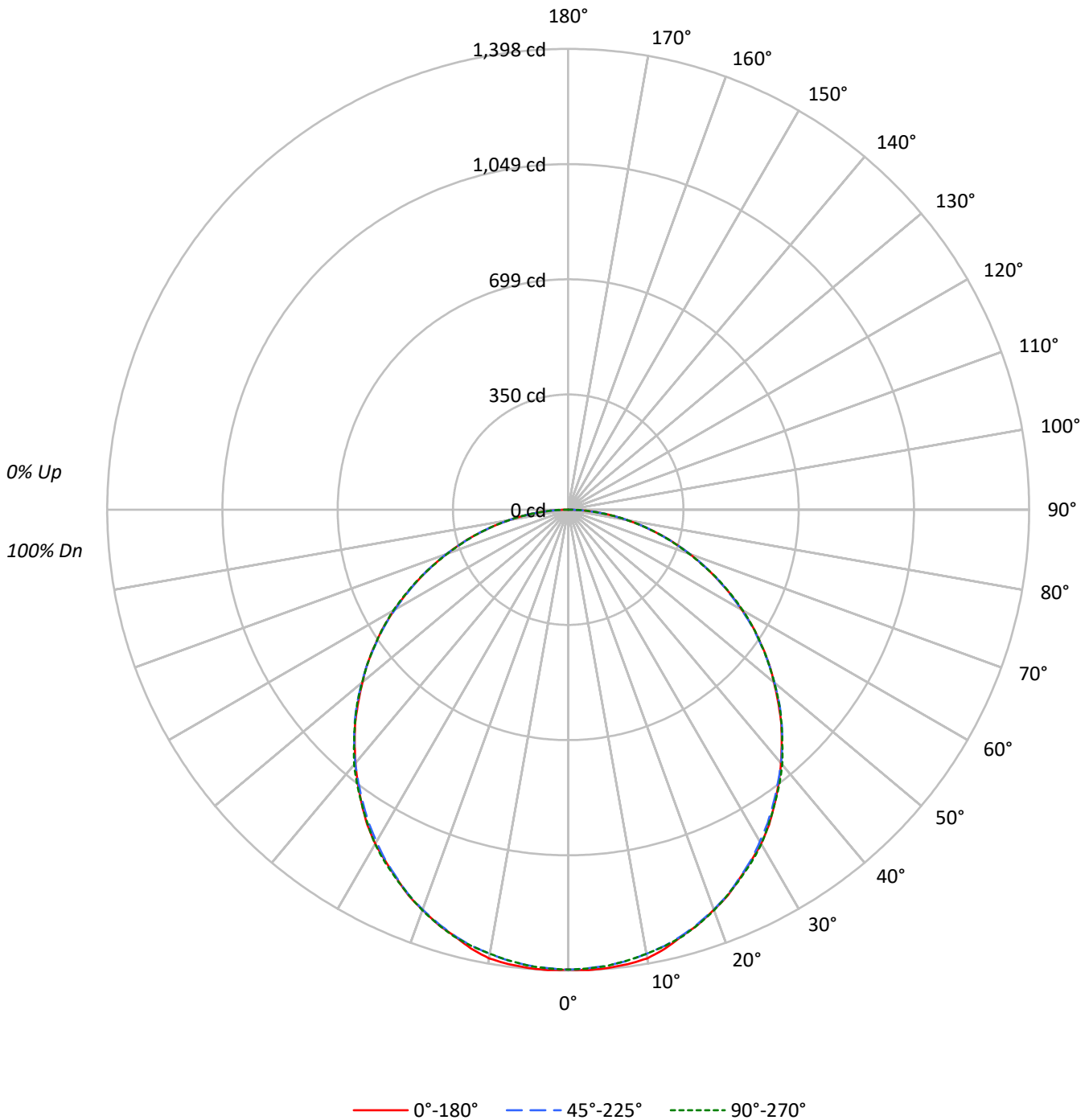
Input Watts (W): 32.643
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1877	1877	1877
5°	1884	1874	1876
10°	1888	1869	1869
15°	1863	1862	1866
20°	1850	1848	1852
25°	1830	1828	1834
30°	1818	1806	1820
35°	1792	1783	1792
40°	1763	1764	1774
45°	1738	1743	1740
50°	1705	1711	1707
55°	1678	1674	1678
60°	1639	1634	1649
65°	1589	1595	1600
70°	1537	1544	1533
75°	1483	1483	1483
80°	1401	1401	1415
85°	1294	1308	1264



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.9	3.3
10°-20°	377.1	9.4
20°-30°	568.3	14.2
30°-40°	680.7	17.1
40°-50°	704.6	17.7
50°-60°	638.9	16.0
60°-70°	495.3	12.4
70°-80°	301.2	7.5
80°-90°	93.7	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°	1077.4	27.0
0°-40°	1758.1	44.0
0°-60°	3101.7	77.7
0°-90°	3992.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3992.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1395	1395	1395	1395	1395	
5°	1395	1387	1388	1386	1389	133
15°	1338	1339	1337	1332	1340	378
25°	1232	1232	1231	1235	1235	569
35°	1091	1084	1086	1090	1091	683
45°	913	915	916	912	914	703
55°	716	712	714	716	716	640
65°	499	502	501	499	503	495
75°	285	284	285	284	285	301
85°	84	83	85	84	82	94
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1395.2	1395.2	1395.2	1395.2	1395.2
2.5°	1398.1	1392.4	1392.4	1390.5	1393.4
5°	1395.2	1386.8	1387.7	1385.8	1388.7
7.5°	1390.5	1379.2	1380.2	1378.3	1379.2
10°	1382.1	1368.9	1367.9	1367.0	1367.9
12.5°	1363.2	1355.7	1354.8	1352.9	1355.7
15°	1337.8	1338.8	1336.9	1332.2	1339.7
17.5°	1318.0	1317.1	1315.2	1310.5	1318.0
20°	1291.7	1292.6	1290.7	1288.9	1293.6
22.5°	1266.3	1263.4	1264.4	1263.4	1264.4
25°	1232.4	1232.4	1231.4	1235.2	1235.2
27.5°	1201.3	1197.5	1199.4	1203.2	1205.1
30°	1170.2	1160.8	1162.7	1166.5	1171.2
32.5°	1133.5	1124.1	1126.0	1129.8	1131.6
35°	1091.2	1083.6	1085.5	1090.2	1091.2
37.5°	1047.8	1043.1	1045.0	1048.8	1051.6
40°	1003.6	1001.7	1004.5	1003.6	1010.2
42.5°	958.4	957.5	960.3	960.3	961.2
45°	913.2	915.1	916.0	912.3	914.2
47.5°	863.3	864.3	868.0	866.1	867.1
50°	814.4	813.4	817.2	818.1	815.3
52.5°	767.3	762.6	766.4	768.2	766.4
55°	715.5	711.7	713.6	716.5	715.5
57.5°	664.7	660.9	661.8	666.6	664.7
60°	609.1	608.2	607.2	611.0	612.9
62.5°	554.5	553.6	551.7	555.5	557.3
65°	499.0	501.8	500.9	499.0	502.7
67.5°	446.3	449.1	446.3	444.4	444.4
70°	390.7	393.5	392.6	390.7	389.8
72.5°	338.9	338.9	337.0	336.1	337.0
75°	285.3	284.3	285.3	284.3	285.3
77.5°	232.5	233.5	233.5	233.5	232.5
80°	180.8	180.8	180.8	181.7	182.6
82.5°	132.7	129.9	132.7	130.9	131.8
85°	83.8	82.8	84.7	83.8	81.9
87.5°	37.7	38.6	38.6	39.5	39.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)