

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: P294189

Luminaire Tested: **24GR-LD5-48-FGW080-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P294189
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-L83050-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: 3995.0 lumens
Efficiency: N/A
Efficacy: 122.0 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

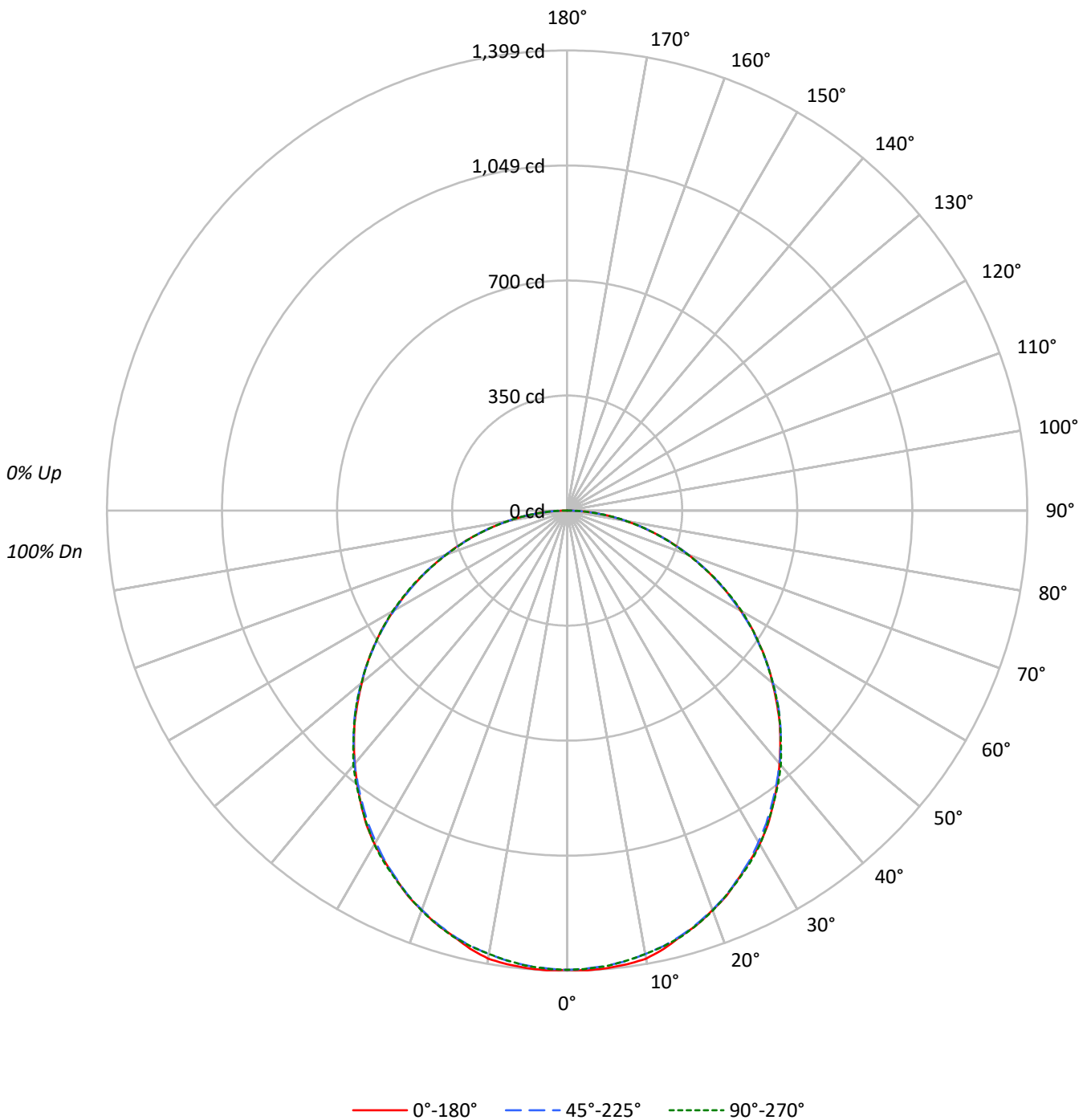
Input Watts (W): 32.736
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1879	1879	1879
5°	1886	1876	1877
10°	1890	1870	1870
15°	1865	1864	1868
20°	1851	1850	1854
25°	1831	1830	1835
30°	1819	1808	1821
35°	1794	1784	1794
40°	1764	1766	1776
45°	1739	1744	1741
50°	1706	1712	1708
55°	1680	1675	1680
60°	1640	1635	1651
65°	1590	1596	1602
70°	1538	1546	1535
75°	1484	1484	1484
80°	1402	1402	1416
85°	1295	1309	1266



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.0	3.3
10°-20°	377.4	9.4
20°-30°	568.8	14.2
30°-40°	681.2	17.1
40°-50°	705.2	17.7
50°-60°	639.4	16.0
60°-70°	495.7	12.4
70°-80°	301.5	7.5
80°-90°	93.8	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°	1078.2	27.0
0°-40°	1759.5	44.0
0°-60°	3104.0	77.7
0°-90°	3995.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3995.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1396	1396	1396	1396	1396	
5°	1396	1388	1389	1387	1390	133
15°	1339	1340	1338	1333	1341	379
25°	1233	1233	1232	1236	1236	569
35°	1092	1084	1086	1091	1092	683
45°	914	916	917	913	915	704
55°	716	712	714	717	716	640
65°	499	502	501	499	503	495
75°	286	284	286	284	286	302
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°	1396.3	1396.3	1396.3	1396.3	1396.3
2.5°	1399.1	1393.5	1393.5	1391.6	1394.4
5°	1396.3	1387.8	1388.8	1386.9	1389.7
7.5°	1391.6	1380.3	1381.2	1379.3	1380.3
10°	1383.1	1369.9	1369.0	1368.0	1369.0
12.5°	1364.3	1356.7	1355.8	1353.9	1356.7
15°	1338.8	1339.8	1337.9	1333.2	1340.7
17.5°	1319.0	1318.1	1316.2	1311.5	1319.0
20°	1292.7	1293.6	1291.7	1289.8	1294.5
22.5°	1267.2	1264.4	1265.3	1264.4	1265.3
25°	1233.3	1233.3	1232.4	1236.1	1236.1
27.5°	1202.2	1198.4	1200.3	1204.1	1206.0
30°	1171.1	1161.7	1163.6	1167.4	1172.1
32.5°	1134.4	1125.0	1126.8	1130.6	1132.5
35°	1092.0	1084.4	1086.3	1091.0	1092.0
37.5°	1048.6	1043.9	1045.8	1049.6	1052.4
40°	1004.4	1002.5	1005.3	1004.4	1011.0
42.5°	959.1	958.2	961.0	961.0	962.0
45°	913.9	915.8	916.7	913.0	914.8
47.5°	864.0	864.9	868.7	866.8	867.7
50°	815.0	814.0	817.8	818.7	815.9
52.5°	767.9	763.2	766.9	768.8	766.9
55°	716.1	712.3	714.2	717.0	716.1
57.5°	665.2	661.4	662.3	667.1	665.2
60°	609.6	608.6	607.7	611.5	613.4
62.5°	554.9	554.0	552.1	555.9	557.8
65°	499.4	502.2	501.2	499.4	503.1
67.5°	446.6	449.4	446.6	444.7	444.7
70°	391.0	393.8	392.9	391.0	390.1
72.5°	339.2	339.2	337.3	336.4	337.3
75°	285.5	284.5	285.5	284.5	285.5
77.5°	232.7	233.7	233.7	233.7	232.7
80°	180.9	180.9	180.9	181.8	182.8
82.5°	132.8	130.0	132.8	131.0	131.9
85°	83.9	82.9	84.8	83.9	82.0
87.5°	37.7	38.6	38.6	39.6	39.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)