

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: P294384

Luminaire Tested: **24GR-LD5-48-FGW080-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P294384
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-L92765-W2A1-U-6500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4013.0 lumens
Efficiency: N/A
Efficacy: 116.6 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

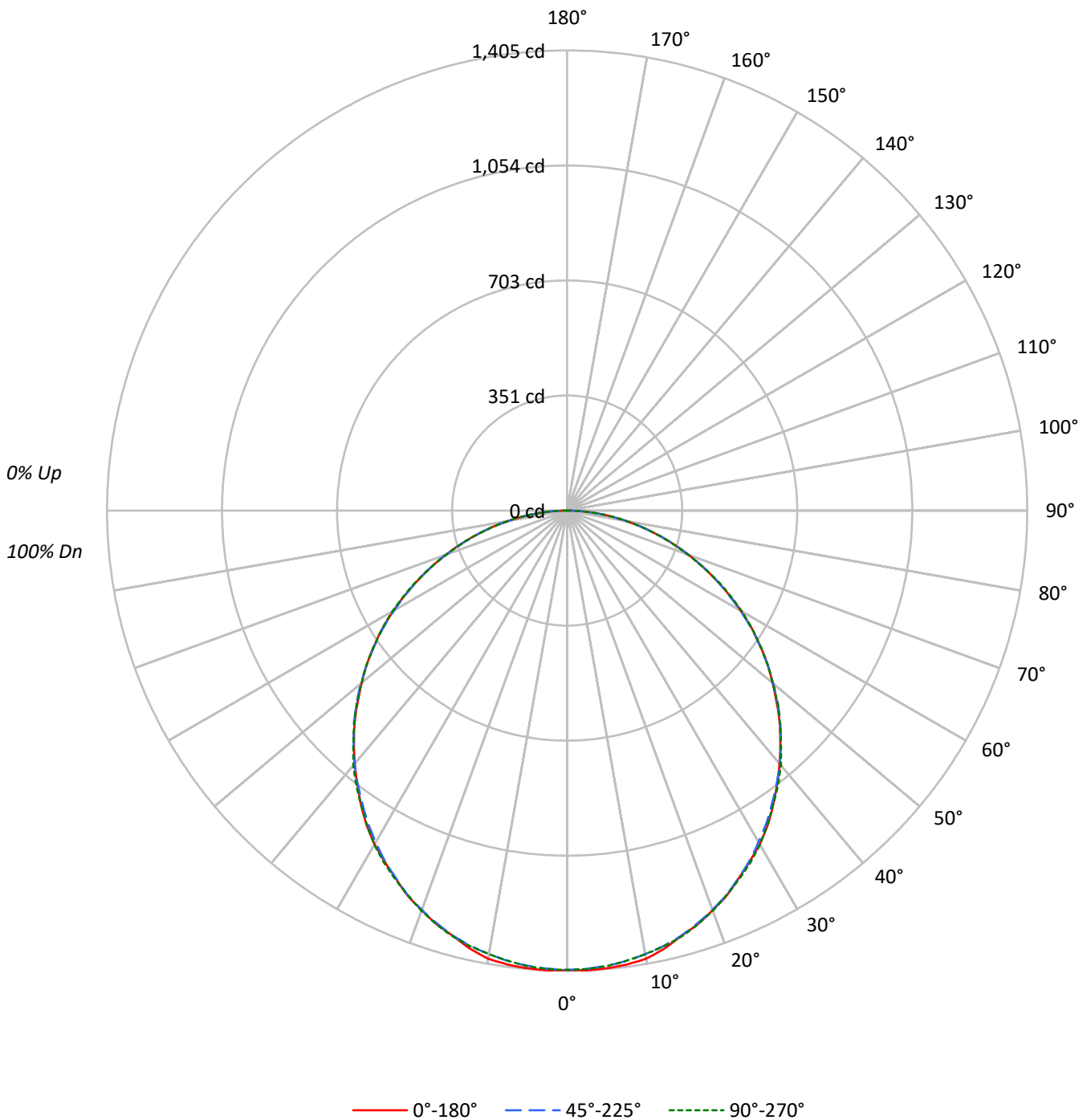
Input Watts (W): 34.41
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1887	1887	1887
5°	1894	1884	1885
10°	1898	1879	1879
15°	1873	1872	1876
20°	1859	1858	1862
25°	1839	1838	1843
30°	1828	1816	1829
35°	1802	1792	1802
40°	1772	1774	1784
45°	1747	1752	1749
50°	1714	1720	1716
55°	1687	1683	1687
60°	1648	1643	1658
65°	1597	1603	1609
70°	1545	1553	1541
75°	1491	1491	1491
80°	1408	1408	1423
85°	1300	1315	1271



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.6	3.3
10°-20°	379.1	9.4
20°-30°	571.3	14.2
30°-40°	684.3	17.1
40°-50°	708.3	17.7
50°-60°	642.3	16.0
60°-70°	497.9	12.4
70°-80°	302.8	7.5
80°-90°	94.2	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°	1083.1	27.0
0°-40°	1767.4	44.0
0°-60°	3118.0	77.7
0°-90°	4013.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4013.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1403	1403	1403	1403	1403	
5°	1403	1394	1395	1393	1396	133
15°	1345	1346	1344	1339	1347	380
25°	1239	1239	1238	1242	1242	572
35°	1097	1089	1091	1096	1097	686
45°	918	920	921	917	919	707
55°	719	716	717	720	719	643
65°	502	504	504	502	505	497
75°	287	286	287	286	287	303
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°	1402.6	1402.6	1402.6	1402.6	1402.6
2.5°	1405.4	1399.8	1399.8	1397.9	1400.7
5°	1402.6	1394.1	1395.0	1393.1	1396.0
7.5°	1397.9	1386.5	1387.4	1385.6	1386.5
10°	1389.3	1376.1	1375.1	1374.2	1375.1
12.5°	1370.4	1362.8	1361.9	1360.0	1362.8
15°	1344.9	1345.8	1343.9	1339.2	1346.8
17.5°	1325.0	1324.0	1322.1	1317.4	1325.0
20°	1298.5	1299.4	1297.5	1295.6	1300.4
22.5°	1272.9	1270.1	1271.0	1270.1	1271.0
25°	1238.9	1238.9	1237.9	1241.7	1241.7
27.5°	1207.6	1203.8	1205.7	1209.5	1211.4
30°	1176.4	1166.9	1168.8	1172.6	1177.3
32.5°	1139.5	1130.0	1131.9	1135.7	1137.6
35°	1096.9	1089.3	1091.2	1096.0	1096.9
37.5°	1053.4	1048.6	1050.5	1054.3	1057.1
40°	1008.9	1007.0	1009.8	1008.9	1015.5
42.5°	963.5	962.5	965.3	965.3	966.3
45°	918.0	919.9	920.9	917.1	919.0
47.5°	867.9	868.8	872.6	870.7	871.6
50°	818.7	817.7	821.5	822.4	819.6
52.5°	771.3	766.6	770.4	772.3	770.4
55°	719.3	715.5	717.4	720.2	719.3
57.5°	668.2	664.4	665.3	670.1	668.2
60°	612.3	611.4	610.4	614.2	616.1
62.5°	557.4	556.5	554.6	558.4	560.3
65°	501.6	504.4	503.5	501.6	505.4
67.5°	448.6	451.4	448.6	446.7	446.7
70°	392.8	395.6	394.7	392.8	391.8
72.5°	340.7	340.7	338.8	337.9	338.8
75°	286.8	285.8	286.8	285.8	286.8
77.5°	233.8	234.7	234.7	234.7	233.8
80°	181.7	181.7	181.7	182.7	183.6
82.5°	133.4	130.6	133.4	131.6	132.5
85°	84.2	83.3	85.2	84.2	82.3
87.5°	37.9	38.8	38.8	39.7	39.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)