

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: P294382

Luminaire Tested: **24GR-LD5-48-FGW080-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P294382
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-5500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3969.0 lumens
Efficiency: N/A
Efficacy: 117.6 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

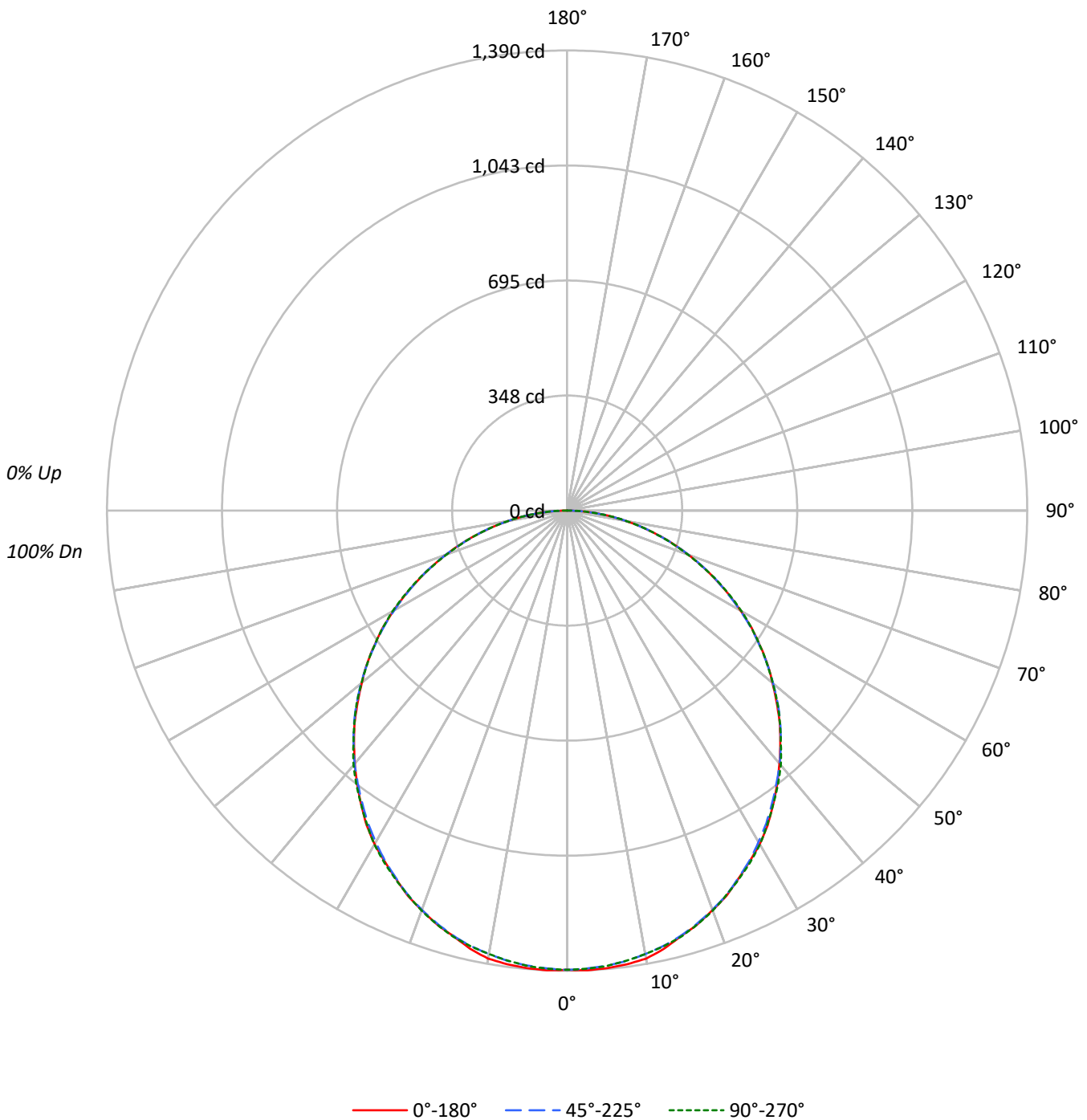
Input Watts (W): 33.759
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1866	1866	1866
5°	1874	1863	1865
10°	1877	1858	1858
15°	1853	1852	1855
20°	1839	1837	1841
25°	1819	1818	1823
30°	1808	1796	1809
35°	1782	1773	1782
40°	1753	1754	1764
45°	1728	1733	1729
50°	1695	1701	1697
55°	1669	1664	1669
60°	1630	1625	1640
65°	1579	1585	1591
70°	1528	1535	1524
75°	1474	1474	1474
80°	1392	1392	1407
85°	1286	1300	1257



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.2	3.3
10°-20°	375.0	9.4
20°-30°	565.1	14.2
30°-40°	676.8	17.1
40°-50°	700.6	17.7
50°-60°	635.2	16.0
60°-70°	492.5	12.4
70°-80°	299.5	7.5
80°-90°	93.2	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°	1071.2	27.0
0°-40°	1748.0	44.0
0°-60°	3083.8	77.7
0°-90°	3969.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3969.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1387	1387	1387	1387	1387	
5°	1387	1379	1380	1378	1381	132
15°	1330	1331	1329	1324	1332	376
25°	1225	1225	1224	1228	1228	566
35°	1085	1077	1079	1084	1085	679
45°	908	910	911	907	909	699
55°	711	708	710	712	711	636
65°	496	499	498	496	500	492
75°	284	283	284	283	284	300
85°	83	82	84	83	81	93
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1387.2	1387.2	1387.2	1387.2	1387.2
2.5°	1390.0	1384.4	1384.4	1382.5	1385.3
5°	1387.2	1378.8	1379.7	1377.9	1380.7
7.5°	1382.5	1371.3	1372.2	1370.4	1371.3
10°	1374.1	1361.0	1360.1	1359.1	1360.1
12.5°	1355.4	1347.9	1347.0	1345.1	1347.9
15°	1330.1	1331.0	1329.2	1324.5	1332.0
17.5°	1310.5	1309.5	1307.6	1303.0	1310.5
20°	1284.2	1285.2	1283.3	1281.4	1286.1
22.5°	1259.0	1256.2	1257.1	1256.2	1257.1
25°	1225.3	1225.3	1224.3	1228.1	1228.1
27.5°	1194.4	1190.6	1192.5	1196.3	1198.1
30°	1163.5	1154.1	1156.0	1159.8	1164.4
32.5°	1127.0	1117.6	1119.5	1123.2	1125.1
35°	1084.9	1077.4	1079.3	1083.9	1084.9
37.5°	1041.8	1037.1	1039.0	1042.7	1045.6
40°	997.8	995.9	998.8	997.8	1004.4
42.5°	952.9	952.0	954.8	954.8	955.7
45°	908.0	909.8	910.8	907.0	908.9
47.5°	858.3	859.3	863.0	861.2	862.1
50°	809.7	808.7	812.5	813.4	810.6
52.5°	762.9	758.2	761.9	763.8	761.9
55°	711.4	707.6	709.5	712.3	711.4
57.5°	660.8	657.1	658.0	662.7	660.8
60°	605.6	604.7	603.7	607.5	609.4
62.5°	551.3	550.4	548.5	552.3	554.1
65°	496.1	498.9	498.0	496.1	499.8
67.5°	443.7	446.5	443.7	441.8	441.8
70°	388.5	391.3	390.3	388.5	387.5
72.5°	337.0	337.0	335.1	334.2	335.1
75°	283.6	282.7	283.6	282.7	283.6
77.5°	231.2	232.1	232.1	232.1	231.2
80°	179.7	179.7	179.7	180.7	181.6
82.5°	132.0	129.2	132.0	130.1	131.0
85°	83.3	82.4	84.2	83.3	81.4
87.5°	37.4	38.4	38.4	39.3	39.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)