

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: P294389

Luminaire Tested: **24GR-LD5-56-FGW080-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P294389
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-LD5-56-FGW080-UNV-L92765-W2A1-U-4500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4452.0 lumens
Efficiency: N/A
Efficacy: 112.1 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

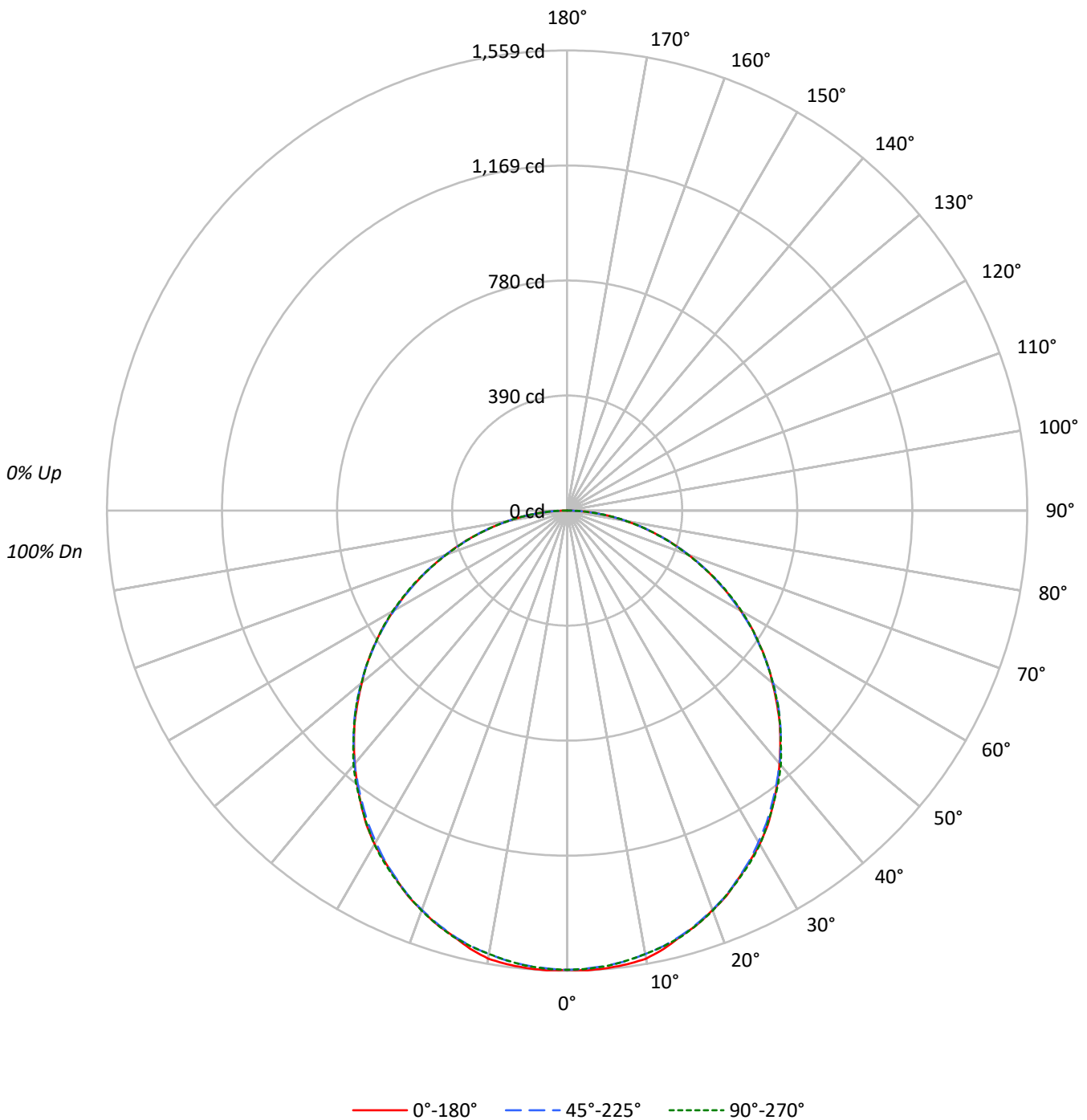
Input Watts (W): 39.711
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2094	2094	2094
5°	2102	2090	2092
10°	2106	2084	2084
15°	2078	2077	2081
20°	2063	2061	2066
25°	2040	2039	2045
30°	2028	2015	2029
35°	1999	1988	1999
40°	1966	1968	1979
45°	1938	1944	1940
50°	1901	1908	1903
55°	1872	1867	1872
60°	1828	1822	1839
65°	1772	1778	1785
70°	1714	1722	1710
75°	1654	1654	1654
80°	1562	1562	1578
85°	1442	1459	1409



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.1	3.3
10°-20°	420.6	9.4
20°-30°	633.8	14.2
30°-40°	759.2	17.1
40°-50°	785.8	17.7
50°-60°	712.6	16.0
60°-70°	552.4	12.4
70°-80°	335.9	7.5
80°-90°	104.5	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°	1201.6	27.0
0°-40°	1960.7	44.0
0°-60°	3459.1	77.7
0°-90°	4452.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4452.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1556	1556	1556	1556	1556	
5°	1556	1547	1548	1546	1549	148
15°	1492	1493	1491	1486	1494	422
25°	1374	1374	1373	1378	1378	634
35°	1217	1208	1211	1216	1217	761
45°	1018	1021	1022	1017	1020	785
55°	798	794	796	799	798	713
65°	556	560	559	556	561	552
75°	318	317	318	317	318	336
85°	93	92	94	93	91	105
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1556.0	1556.0	1556.0	1556.0	1556.0
2.5°	1559.2	1552.9	1552.9	1550.8	1553.9
5°	1556.0	1546.6	1547.6	1545.5	1548.7
7.5°	1550.8	1538.2	1539.2	1537.1	1538.2
10°	1541.3	1526.6	1525.6	1524.5	1525.6
12.5°	1520.3	1511.9	1510.9	1508.8	1511.9
15°	1492.0	1493.0	1490.9	1485.7	1494.1
17.5°	1469.9	1468.9	1466.8	1461.5	1469.9
20°	1440.5	1441.6	1439.5	1437.4	1442.6
22.5°	1412.2	1409.0	1410.1	1409.0	1410.1
25°	1374.4	1374.4	1373.3	1377.5	1377.5
27.5°	1339.7	1335.5	1337.6	1341.8	1343.9
30°	1305.1	1294.6	1296.7	1300.9	1306.1
32.5°	1264.1	1253.6	1255.7	1259.9	1262.0
35°	1216.9	1208.5	1210.6	1215.8	1216.9
37.5°	1168.6	1163.3	1165.4	1169.6	1172.8
40°	1119.2	1117.1	1120.3	1119.2	1126.6
42.5°	1068.8	1067.8	1070.9	1070.9	1072.0
45°	1018.5	1020.6	1021.6	1017.4	1019.5
47.5°	962.8	963.9	968.1	966.0	967.0
50°	908.2	907.2	911.4	912.4	909.3
52.5°	855.7	850.5	854.7	856.8	854.7
55°	798.0	793.8	795.9	799.0	798.0
57.5°	741.3	737.1	738.1	743.4	741.3
60°	679.3	678.3	677.2	681.4	683.5
62.5°	618.4	617.4	615.3	619.5	621.6
65°	556.5	559.6	558.6	556.5	560.7
67.5°	497.7	500.8	497.7	495.6	495.6
70°	435.7	438.9	437.8	435.7	434.7
72.5°	378.0	378.0	375.9	374.8	375.9
75°	318.1	317.1	318.1	317.1	318.1
77.5°	259.3	260.4	260.4	260.4	259.3
80°	201.6	201.6	201.6	202.6	203.7
82.5°	148.0	144.9	148.0	145.9	147.0
85°	93.4	92.4	94.5	93.4	91.3
87.5°	42.0	43.0	43.0	44.1	44.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)