

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: P294253

Luminaire Tested: **24GR-LD5-48-FGW080-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P294253
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-4000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4220.0 lumens
Efficiency: N/A
Efficacy: 127.1 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

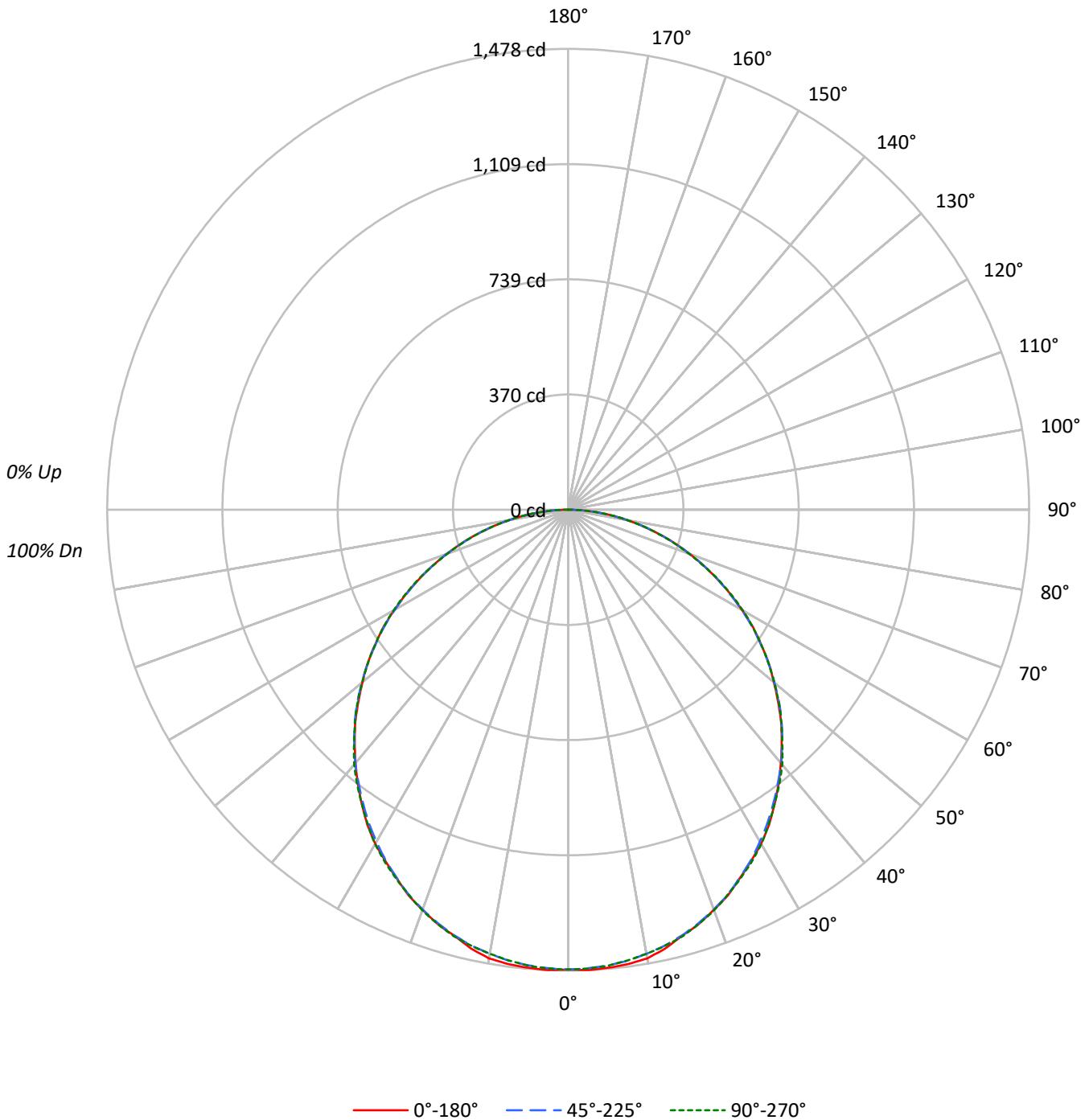
Input Watts (W): 33.201
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1984	1984	1984
5°	1992	1981	1983
10°	1996	1976	1976
15°	1970	1969	1973
20°	1955	1954	1958
25°	1934	1933	1938
30°	1922	1910	1924
35°	1895	1885	1895
40°	1863	1865	1876
45°	1837	1843	1839
50°	1802	1808	1804
55°	1774	1770	1774
60°	1733	1727	1743
65°	1679	1686	1692
70°	1625	1633	1621
75°	1568	1568	1568
80°	1481	1481	1496
85°	1368	1383	1337



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.5	3.3
10°-20°	398.7	9.4
20°-30°	600.8	14.2
30°-40°	719.6	17.1
40°-50°	744.9	17.7
50°-60°	675.4	16.0
60°-70°	523.6	12.4
70°-80°	318.4	7.5
80°-90°	99.1	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°	1139.0	27.0
0°-40°	1858.6	44.0
0°-60°	3278.9	77.7
0°-90°	4220.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4220.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1475	1475	1475	1475	1475	
5°	1475	1466	1467	1465	1468	140
15°	1414	1415	1413	1408	1416	400
25°	1303	1303	1302	1306	1306	601
35°	1154	1146	1148	1152	1154	722
45°	965	967	968	964	966	744
55°	756	752	754	757	756	676
65°	528	530	530	528	532	523
75°	302	301	302	301	302	319
85°	89	88	90	89	87	99
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1474.9	1474.9	1474.9	1474.9	1474.9
2.5°	1477.9	1472.0	1472.0	1470.0	1472.9
5°	1474.9	1466.0	1467.0	1465.0	1468.0
7.5°	1470.0	1458.0	1459.0	1457.0	1458.0
10°	1461.0	1447.1	1446.1	1445.1	1446.1
12.5°	1441.1	1433.1	1432.1	1430.2	1433.1
15°	1414.2	1415.2	1413.2	1408.3	1416.2
17.5°	1393.3	1392.3	1390.3	1385.4	1393.3
20°	1365.5	1366.5	1364.5	1362.5	1367.5
22.5°	1338.6	1335.6	1336.6	1335.6	1336.6
25°	1302.8	1302.8	1301.8	1305.7	1305.7
27.5°	1269.9	1265.9	1267.9	1271.9	1273.9
30°	1237.1	1227.1	1229.1	1233.1	1238.1
32.5°	1198.3	1188.3	1190.3	1194.3	1196.3
35°	1153.5	1145.5	1147.5	1152.5	1153.5
37.5°	1107.7	1102.7	1104.7	1108.7	1111.7
40°	1060.9	1058.9	1061.9	1060.9	1067.9
42.5°	1013.1	1012.2	1015.1	1015.1	1016.1
45°	965.4	967.4	968.4	964.4	966.4
47.5°	912.6	913.6	917.6	915.6	916.6
50°	860.9	859.9	863.9	864.9	861.9
52.5°	811.1	806.1	810.1	812.1	810.1
55°	756.4	752.4	754.4	757.4	756.4
57.5°	702.6	698.7	699.7	704.6	702.6
60°	643.9	642.9	641.9	645.9	647.9
62.5°	586.2	585.2	583.2	587.2	589.2
65°	527.5	530.5	529.5	527.5	531.5
67.5°	471.7	474.7	471.7	469.8	469.8
70°	413.0	416.0	415.0	413.0	412.0
72.5°	358.3	358.3	356.3	355.3	356.3
75°	301.6	300.6	301.6	300.6	301.6
77.5°	245.8	246.8	246.8	246.8	245.8
80°	191.1	191.1	191.1	192.1	193.1
82.5°	140.3	137.3	140.3	138.3	139.3
85°	88.6	87.6	89.6	88.6	86.6
87.5°	39.8	40.8	40.8	41.8	41.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)