

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: P234082

Luminaire Tested: **22GR-LD5-50-F1-UNV-L935-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P234082
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33295)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/12/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-50-F1-UNV-L935-CD1-U
Description: METALUX 2X2 GRLED TROFFER
WITH F1 LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4189.6 lumens
Efficiency: N/A
Efficacy: 103.7 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.19 / 1.24
Luminous Opening: Rectangular (W 1.83' x L: 1.83' x H: 0')
CIE Type: Direct

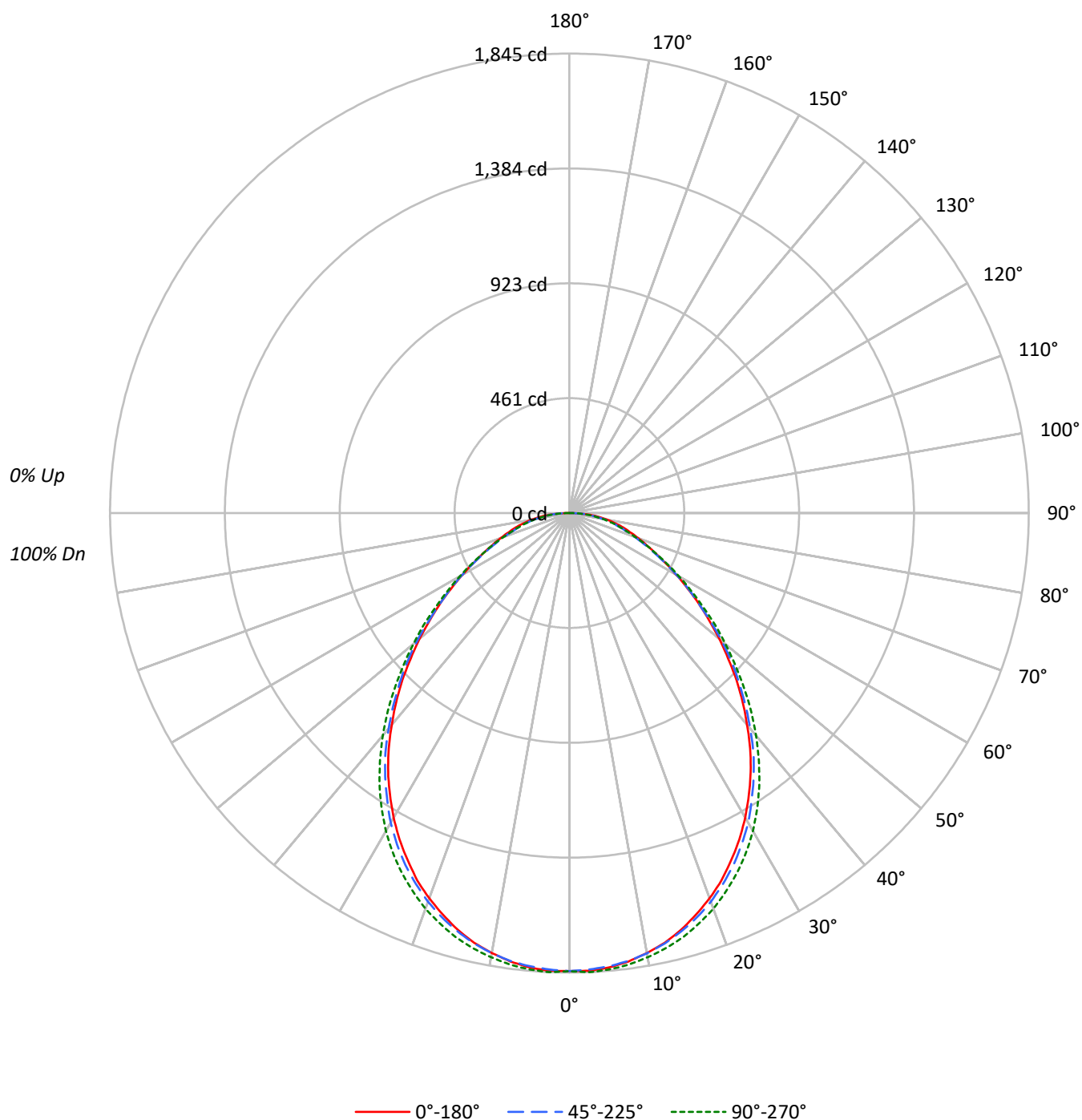
Input Watts (W): 40.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	110	105	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85		
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73		
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	62		
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	60	56	54		
5	78	66	58	52	76	65	57	51	63	56	51	61	55	50	59	54	50	48		
6	73	60	52	45	71	59	51	45	57	50	45	56	49	45	54	49	44	42		
7	68	55	46	41	66	54	46	40	53	45	40	51	45	40	50	44	40	38		
8	63	50	42	36	62	50	42	36	48	41	36	47	41	36	46	40	36	34		
9	59	46	38	33	58	46	38	33	45	38	33	44	37	33	43	37	33	31		
10	56	43	35	30	54	42	35	30	41	35	30	40	34	30	40	34	30	28		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5890	5890	5890
5°	5888	5872	5913
10°	5833	5836	5890
15°	5743	5763	5846
20°	5609	5659	5762
25°	5434	5510	5630
30°	5220	5309	5450
35°	4964	5043	5199
40°	4641	4718	4873
45°	4297	4363	4491
50°	3914	3977	4078
55°	3533	3544	3648
60°	3169	3181	3256
65°	2888	2829	2895
70°	2749	2595	2640
75°	2767	2502	2514
80°	2868	2528	2510
85°	3142	2679	2535



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.8	4.1
10°-20°	490.9	11.7
20°-30°	718.5	17.1
30°-40°	807.8	19.3
40°-50°	744.9	17.8
50°-60°	574.1	13.7
60°-70°	378.8	9.0
70°-80°	220.5	5.3
80°-90°	80.3	1.9
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°	1383.1	33.0
0°-40°	2190.9	52.3
0°-60°	3509.9	83.8
0°-90°	4189.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4189.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1839	1839	1839	1839	1839	
5°	1832	1828	1827	1835	1839	174
15°	1732	1732	1738	1754	1763	488
25°	1538	1546	1559	1581	1593	707
35°	1270	1275	1290	1316	1330	792
45°	949	950	963	983	992	731
55°	633	632	635	646	653	568
65°	381	379	373	376	382	382
75°	224	214	202	198	203	236
85°	86	85	73	67	69	90
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1839.3	1839.3	1839.3	1839.3	1839.3
2.5°	1839.3	1835.4	1834.4	1841.2	1845.1
5°	1831.5	1827.6	1826.6	1835.4	1839.3
7.5°	1815.9	1813.0	1814.0	1823.8	1828.6
10°	1793.6	1792.6	1794.5	1805.2	1811.1
12.5°	1767.3	1766.4	1770.2	1781.9	1789.7
15°	1732.3	1732.3	1738.2	1753.7	1763.4
17.5°	1690.6	1693.5	1702.2	1717.8	1728.5
20°	1645.9	1648.7	1660.4	1677.9	1690.6
22.5°	1596.2	1600.1	1611.8	1633.2	1643.9
25°	1537.9	1545.7	1559.3	1580.7	1593.3
27.5°	1477.6	1486.4	1499.1	1525.2	1537.0
30°	1411.5	1417.4	1435.8	1460.1	1473.7
32.5°	1341.6	1347.3	1362.9	1392.1	1403.8
35°	1269.6	1275.4	1290.0	1316.2	1329.9
37.5°	1191.9	1196.7	1214.2	1234.6	1249.2
40°	1110.2	1117.0	1128.6	1152.9	1165.6
42.5°	1030.5	1033.3	1046.0	1070.3	1080.0
45°	948.8	949.8	963.4	982.9	991.6
47.5°	864.2	866.2	882.7	894.4	903.1
50°	785.5	786.4	798.2	808.8	818.6
52.5°	706.8	706.8	712.6	724.2	736.9
55°	632.8	631.9	634.8	645.5	653.3
57.5°	562.9	561.8	565.8	572.6	578.4
60°	494.8	492.8	496.7	500.6	508.4
62.5°	434.5	436.5	431.6	437.5	443.3
65°	381.1	379.1	373.3	376.2	382.1
67.5°	335.4	332.4	322.7	324.7	331.5
70°	293.6	287.7	277.1	277.1	281.9
72.5°	255.7	249.8	236.2	237.2	239.1
75°	223.6	213.9	202.2	198.3	203.2
77.5°	188.6	180.8	170.1	167.2	169.2
80°	155.5	149.7	137.1	133.2	136.1
82.5°	123.4	118.6	104.0	101.1	102.1
85°	85.5	84.6	72.9	67.1	69.0
87.5°	45.7	46.7	37.9	34.0	36.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)