

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: P213707

Luminaire Tested: **22GR-LD5-40-F1-UNV-L950-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P213707
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35595)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/12/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-40-F1-UNV-L950-CD1-U
Description: METALUX GR 2X2 LED TROFFER WITH F1 LENS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4115.0 lumens
Efficiency: N/A
Efficacy: 106.1 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.18 / 1.24
Luminous Opening: Rectangular (W 1.83' x L: 1.83' x H: 0')
CIE Type: Direct

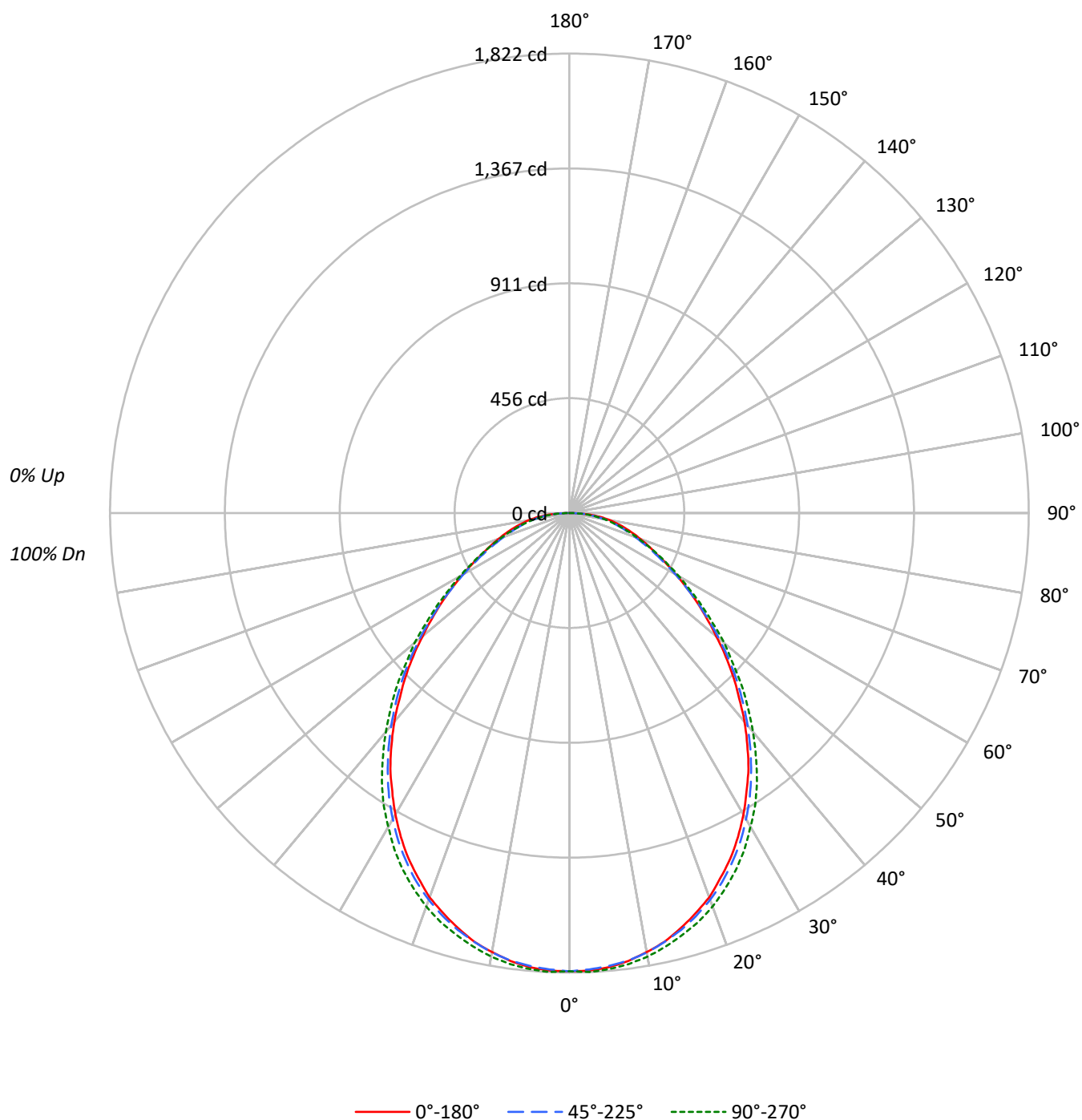
Input Watts (W): 38.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111			106	106	106			102
1	109	105	101	97	107	103	99	96		98	95	93			95	92	90			91
2	100	93	86	81	98	91	85	80		87	82	78			84	80	76			81
3	92	82	74	68	90	81	73	68		78	72	67			75	70	65			72
4	85	73	65	59	83	72	64	58		70	63	58			67	62	57			65
5	78	66	58	51	76	65	57	51		63	56	51			61	55	50			59
6	73	60	51	45	71	59	51	45		57	50	45			56	49	44			54
7	68	55	46	40	66	54	46	40		52	45	40			51	45	40			50
8	63	50	42	36	62	49	42	36		48	41	36			47	41	36			46
9	59	46	38	33	58	46	38	33		45	38	33			43	37	33			42
10	56	43	35	30	54	42	35	30		41	35	30			40	34	30			40

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5818	5818	5818
5°	5810	5795	5834
10°	5749	5755	5807
15°	5651	5673	5742
20°	5526	5561	5658
25°	5340	5399	5519
30°	5106	5183	5312
35°	4841	4911	5070
40°	4518	4593	4735
45°	4168	4249	4377
50°	3790	3861	3997
55°	3447	3473	3578
60°	3125	3101	3216
65°	2875	2796	2911
70°	2792	2589	2686
75°	2826	2534	2570
80°	3012	2593	2628
85°	3329	2774	2737



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.4	4.2
10°-20°	483.0	11.7
20°-30°	704.1	17.1
30°-40°	787.1	19.1
40°-50°	723.8	17.6
50°-60°	560.8	13.6
60°-70°	375.9	9.1
70°-80°	224.9	5.5
80°-90°	84.1	2.0
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°	1358.5	33.0
0°-40°	2145.5	52.1
0°-60°	3430.1	83.4
0°-90°	4115.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4115.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1817	1817	1817	1817	1817	
5°	1807	1804	1803	1810	1815	171
15°	1704	1706	1711	1724	1732	480
25°	1511	1515	1528	1550	1562	694
35°	1238	1240	1256	1281	1297	772
45°	920	923	938	952	966	709
55°	617	618	622	631	641	554
65°	379	377	369	373	384	382
75°	228	219	205	203	208	242
85°	91	92	76	71	74	94
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1816.8	1816.8	1816.8	1816.8	1816.8
2.5°	1815.8	1812.1	1811.2	1816.8	1821.5
5°	1807.4	1803.6	1802.6	1810.2	1814.9
7.5°	1791.3	1788.5	1789.4	1797.0	1803.6
10°	1767.8	1766.8	1769.6	1779.0	1785.7
12.5°	1741.3	1739.4	1742.3	1754.5	1761.1
15°	1704.5	1706.3	1711.1	1724.3	1731.8
17.5°	1663.9	1665.8	1674.3	1687.5	1699.8
20°	1621.4	1620.5	1631.8	1649.7	1660.1
22.5°	1565.7	1570.5	1583.7	1602.6	1613.0
25°	1511.1	1514.8	1528.0	1549.7	1562.0
27.5°	1447.8	1454.4	1468.6	1489.3	1503.5
30°	1380.7	1386.5	1401.5	1425.2	1436.4
32.5°	1308.1	1315.7	1331.7	1357.2	1371.4
35°	1238.2	1240.1	1256.2	1280.7	1296.8
37.5°	1159.0	1163.7	1178.8	1206.2	1214.7
40°	1080.6	1084.4	1098.6	1121.2	1132.6
42.5°	996.6	1003.3	1018.4	1035.3	1048.6
45°	920.2	923.0	938.1	952.3	966.4
47.5°	840.0	842.8	856.0	871.1	876.8
50°	760.7	764.5	774.9	790.0	802.3
52.5°	687.1	689.0	693.7	710.7	716.4
55°	617.3	618.2	622.0	631.4	640.8
57.5°	551.2	550.3	549.3	557.7	566.3
60°	487.9	486.0	484.2	490.8	502.1
62.5°	432.2	430.3	422.8	430.3	439.8
65°	379.4	376.6	369.0	372.8	384.1
67.5°	337.9	332.2	320.0	324.7	333.2
70°	298.2	290.7	276.5	280.3	286.9
72.5°	263.4	252.0	239.7	240.7	247.2
75°	228.4	218.9	204.8	202.9	207.7
77.5°	195.4	187.8	172.7	169.9	173.6
80°	163.3	155.7	140.6	135.0	142.5
82.5°	128.4	125.5	108.6	104.7	107.6
85°	90.6	91.5	75.5	70.8	74.5
87.5°	46.2	48.1	38.7	37.8	37.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)