

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: P213372

Luminaire Tested: **14GR-LD5-40-F1-UNV-L950-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P213372
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35602)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/12/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-40-F1-UNV-L950-CD1-U
Description: METALUX GR 1X4 LED TROFFER WITH F1 LENS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4061.3 lumens
Efficiency: N/A
Efficacy: 104.7 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.15 / 1.23
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

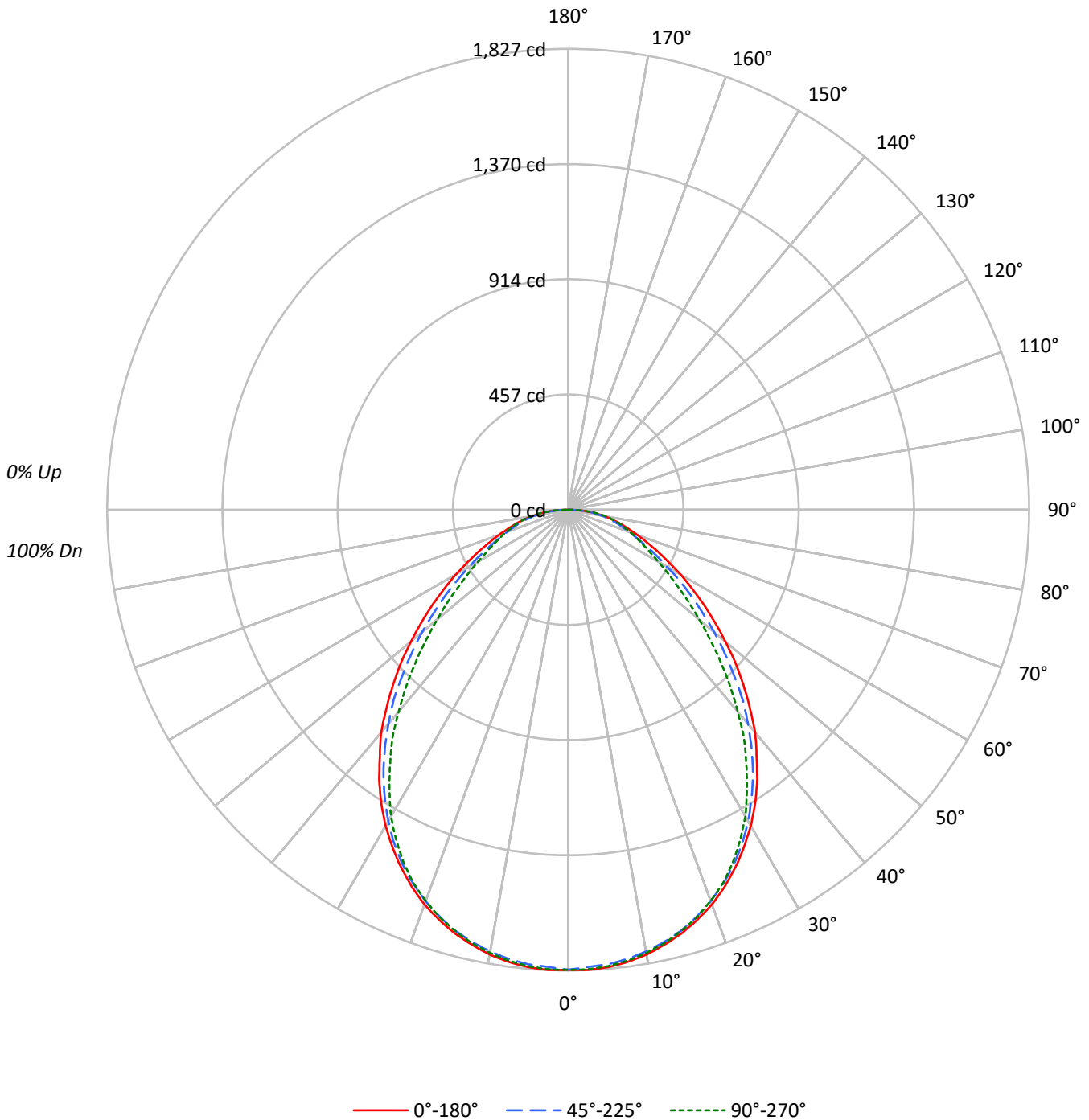
Input Watts (W): 38.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	110	105	101	98	107	103	99	96	99	96	93		95	92	90		91	89	87	85
2	101	93	87	81	98	91	85	80	88	83	78		84	80	77		81	78	75	73
3	92	83	75	69	90	81	74	68	78	72	67		75	70	66		73	69	65	63
4	85	74	66	59	83	73	65	59	70	64	58		68	62	58		66	61	57	55
5	79	67	58	52	77	66	58	52	64	57	51		62	55	51		60	54	50	48
6	73	61	52	46	71	60	52	46	58	51	45		56	50	45		55	49	45	43
7	68	55	47	41	66	54	47	41	53	46	41		52	45	40		50	45	40	38
8	64	51	43	37	62	50	42	37	49	42	37		48	41	37		46	41	36	34
9	60	47	39	34	58	46	39	34	45	38	33		44	38	33		43	37	33	31
10	56	43	36	31	55	43	36	31	42	35	30		41	35	30		40	34	30	29

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6146	6146	6146
5°	6157	6119	6144
10°	6128	6086	6105
15°	6065	6029	6033
20°	5973	5922	5919
25°	5823	5770	5739
30°	5629	5548	5463
35°	5370	5249	5062
40°	5071	4875	4596
45°	4676	4432	4075
50°	4259	3961	3558
55°	3848	3503	3102
60°	3463	3048	2773
65°	3107	2721	2600
70°	2867	2531	2577
75°	2765	2506	2716
80°	2777	2612	2944
85°	2969	2714	3077



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	172.3	4.2
10°-20°	488.1	12.0
20°-30°	714.4	17.6
30°-40°	794.0	19.6
40°-50°	713.7	17.6
50°-60°	533.7	13.1
60°-70°	351.5	8.7
70°-80°	213.7	5.3
80°-90°	79.9	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°	1374.8	33.9
0°-40°	2168.8	53.4
0°-60°	3416.2	84.1
0°-90°	4061.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4061.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1824	1824	1824	1824	1824	
5°	1820	1816	1809	1818	1816	173
15°	1739	1735	1728	1734	1729	490
25°	1566	1563	1552	1549	1544	720
35°	1306	1299	1276	1249	1231	815
45°	981	971	930	880	855	757
55°	655	641	596	547	528	588
65°	390	376	341	327	326	390
75°	212	203	192	202	209	226
85°	77	71	70	82	80	82
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1824.1	1824.1	1824.1	1824.1	1824.1
2.5°	1826.9	1823.1	1814.6	1825.0	1824.1
5°	1820.3	1816.5	1808.9	1818.4	1816.5
7.5°	1808.0	1803.3	1796.6	1806.1	1803.3
10°	1790.9	1786.1	1778.6	1789.0	1784.2
12.5°	1766.2	1763.4	1755.8	1763.4	1760.6
15°	1738.7	1734.9	1728.3	1734.0	1729.3
17.5°	1703.7	1699.9	1692.3	1699.9	1694.1
20°	1665.8	1661.0	1651.6	1657.2	1650.6
22.5°	1618.3	1613.6	1605.1	1607.9	1602.2
25°	1566.2	1563.4	1552.0	1549.1	1543.5
27.5°	1508.3	1503.6	1493.2	1487.5	1476.1
30°	1446.7	1442.0	1425.9	1416.4	1404.0
32.5°	1379.5	1371.8	1352.9	1336.8	1318.8
35°	1305.5	1298.8	1276.1	1248.6	1230.6
37.5°	1225.9	1222.0	1193.6	1159.5	1145.2
40°	1152.9	1138.6	1108.3	1066.6	1044.8
42.5°	1065.6	1056.1	1023.9	977.4	949.9
45°	981.3	970.8	930.0	879.8	855.1
47.5°	898.7	887.3	840.9	791.6	763.2
50°	812.4	803.0	755.6	700.6	678.8
52.5°	731.9	719.5	670.3	621.0	602.1
55°	655.1	640.9	596.3	547.0	528.1
57.5°	582.1	565.0	522.3	479.8	467.4
60°	513.9	494.9	452.3	421.0	411.5
62.5°	447.4	433.3	395.3	371.6	365.9
65°	389.7	375.5	341.3	327.1	326.1
67.5°	336.5	322.3	295.8	292.0	293.9
70°	291.0	278.7	256.9	258.8	261.6
72.5°	248.4	237.1	223.8	228.5	234.1
75°	212.4	202.9	192.5	201.9	208.6
77.5°	178.3	168.7	163.1	172.5	180.1
80°	143.1	136.5	134.6	145.1	151.7
82.5°	110.9	105.2	102.4	115.7	118.5
85°	76.8	71.1	70.2	81.5	79.6
87.5°	40.8	36.0	36.0	42.7	37.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)