

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: P229589

Luminaire Tested: **22RLN-LD5-44-UNV-L840-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229589
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P36050)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22RLN-LD5-44-UNV-L840-CD1-U
Description: METALUX 2X2 RLN LED TROFFER
Light Source: (126)4000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4415.0 lumens
Efficiency: N/A
Efficacy: 111.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.23 / 1.31
Luminous Opening: Rectangular (W 1.83' x L: 1.83' x H: 0')
CIE Type: Direct

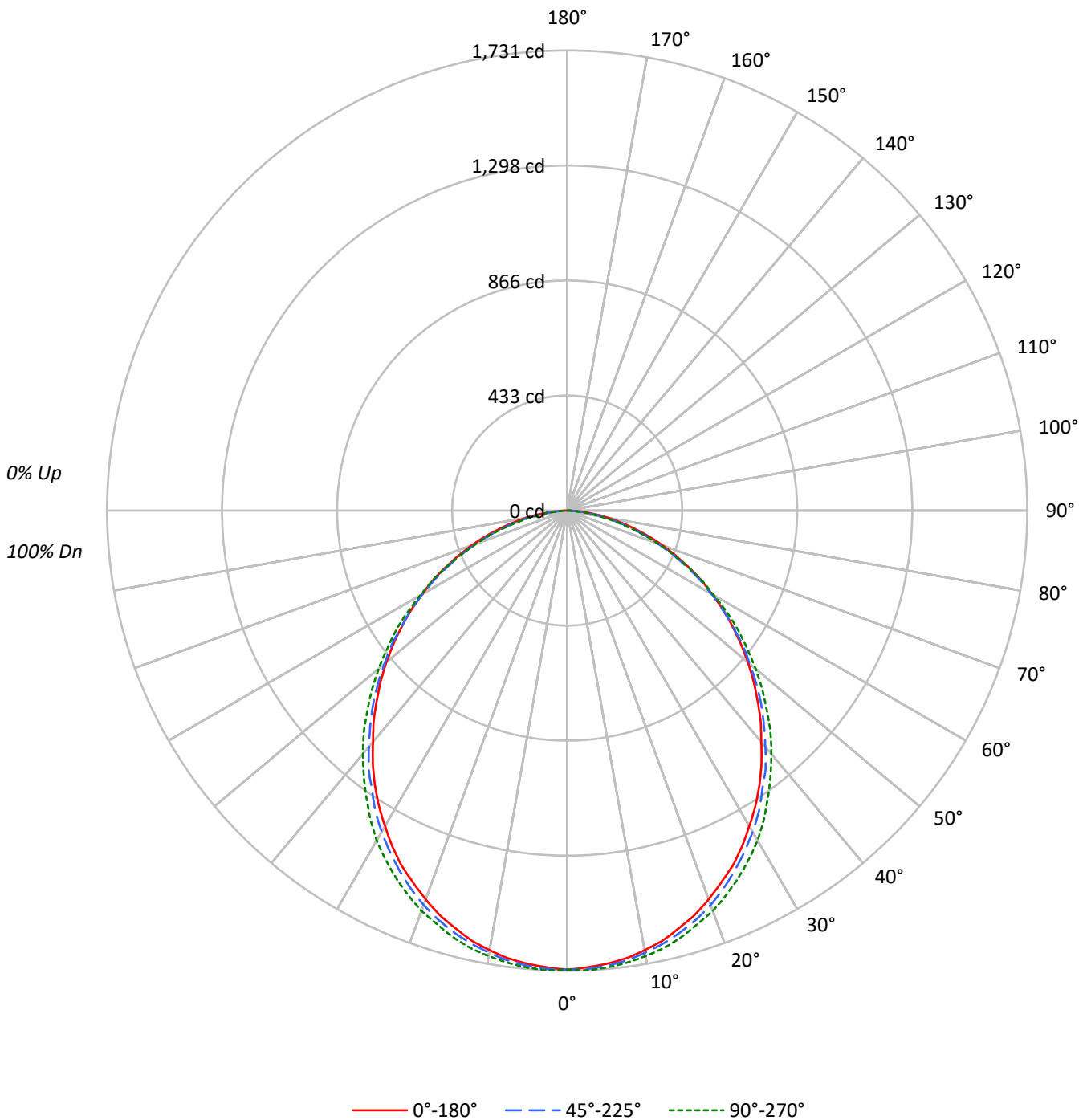
Input Watts (W): 39.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	105	101	97	107	102	99	95	98	95	92	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	73	71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	43	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	51	43	38	49	42	38	48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	32
9	58	44	36	31	56	44	36	31	43	36	31	42	35	30	41	35	30	28
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5531	5531	5531
5°	5503	5525	5548
10°	5461	5493	5534
15°	5392	5448	5508
20°	5304	5380	5462
25°	5208	5277	5386
30°	5067	5160	5300
35°	4930	5007	5149
40°	4751	4850	4997
45°	4589	4678	4811
50°	4421	4470	4609
55°	4235	4243	4391
60°	4034	4016	4079
65°	3818	3733	3786
70°	3578	3394	3407
75°	3238	2978	2892
80°	2864	2505	2324
85°	2315	1749	1492



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.2	3.7
10°-20°	463.4	10.5
20°-30°	688.7	15.6
30°-40°	804.0	18.2
40°-50°	798.0	18.1
50°-60°	684.8	15.5
60°-70°	491.5	11.1
70°-80°	260.4	5.9
80°-90°	61.0	1.4
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°	1315.3	29.8
0°-40°	2119.2	48.0
0°-60°	3602.0	81.6
0°-90°	4415.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4415.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1727	1727	1727	1727	1727	
5°	1712	1714	1719	1724	1726	162
15°	1626	1632	1643	1656	1661	459
25°	1474	1478	1493	1516	1524	677
35°	1261	1265	1281	1309	1317	788
45°	1013	1018	1033	1051	1062	782
55°	758	754	760	777	786	679
65°	504	491	493	497	500	500
75°	262	249	241	238	234	279
85°	63	55	48	41	41	75
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1727.0	1727.0	1727.0	1727.0	1727.0
2.5°	1720.0	1721.4	1725.6	1729.8	1731.2
5°	1711.6	1714.4	1718.6	1724.2	1725.6
7.5°	1699.0	1701.8	1707.4	1713.0	1715.8
10°	1679.4	1683.6	1689.2	1699.0	1701.8
12.5°	1657.1	1659.9	1668.2	1679.4	1685.0
15°	1626.3	1631.9	1643.1	1655.7	1661.2
17.5°	1595.5	1599.7	1613.7	1626.3	1630.5
20°	1556.3	1564.7	1578.7	1594.1	1602.5
22.5°	1514.3	1521.3	1538.1	1556.3	1564.7
25°	1473.7	1477.9	1493.3	1515.7	1524.1
27.5°	1424.7	1428.9	1445.7	1468.1	1479.3
30°	1370.1	1377.1	1395.3	1420.5	1433.1
32.5°	1318.4	1324.0	1342.2	1364.5	1377.1
35°	1261.0	1265.2	1280.6	1308.6	1317.0
37.5°	1200.8	1205.0	1226.0	1247.0	1256.8
40°	1136.4	1142.0	1160.2	1181.2	1195.2
42.5°	1077.6	1080.4	1095.8	1119.6	1132.2
45°	1013.3	1017.5	1032.9	1051.1	1062.2
47.5°	951.7	950.3	965.7	986.7	995.1
50°	887.3	884.5	897.1	918.1	925.1
52.5°	822.9	818.7	832.7	848.1	853.7
55°	758.5	754.4	759.9	776.7	786.5
57.5°	695.6	688.6	695.6	704.0	712.4
60°	629.8	618.6	627.0	636.8	636.8
62.5°	569.6	557.0	561.2	568.2	572.4
65°	503.8	491.2	492.6	496.8	499.6
67.5°	442.3	429.7	426.9	428.3	429.7
70°	382.1	368.1	362.5	359.7	363.9
72.5°	320.5	306.5	303.7	298.1	299.5
75°	261.7	249.1	240.7	237.9	233.7
77.5°	205.7	194.5	187.5	179.1	177.7
80°	155.3	141.4	135.8	130.2	126.0
82.5°	109.2	96.6	86.8	81.2	77.0
85°	63.0	54.6	47.6	40.6	40.6
87.5°	25.2	19.6	16.8	15.4	14.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)