

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: P229891

Luminaire Tested: **24RLN-LD5-55-UNV-L940-CD1-SVPD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229891
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P36062)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24RLN-LD5-55-UNV-L940-CD1-SVPD1-U
Description: METALUX 2X4 RLN LED TROFFER WITH SENSOR
Light Source: (252)4000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4846.0 lumens
Efficiency: N/A
Efficacy: 113.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.22 / 1.31
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

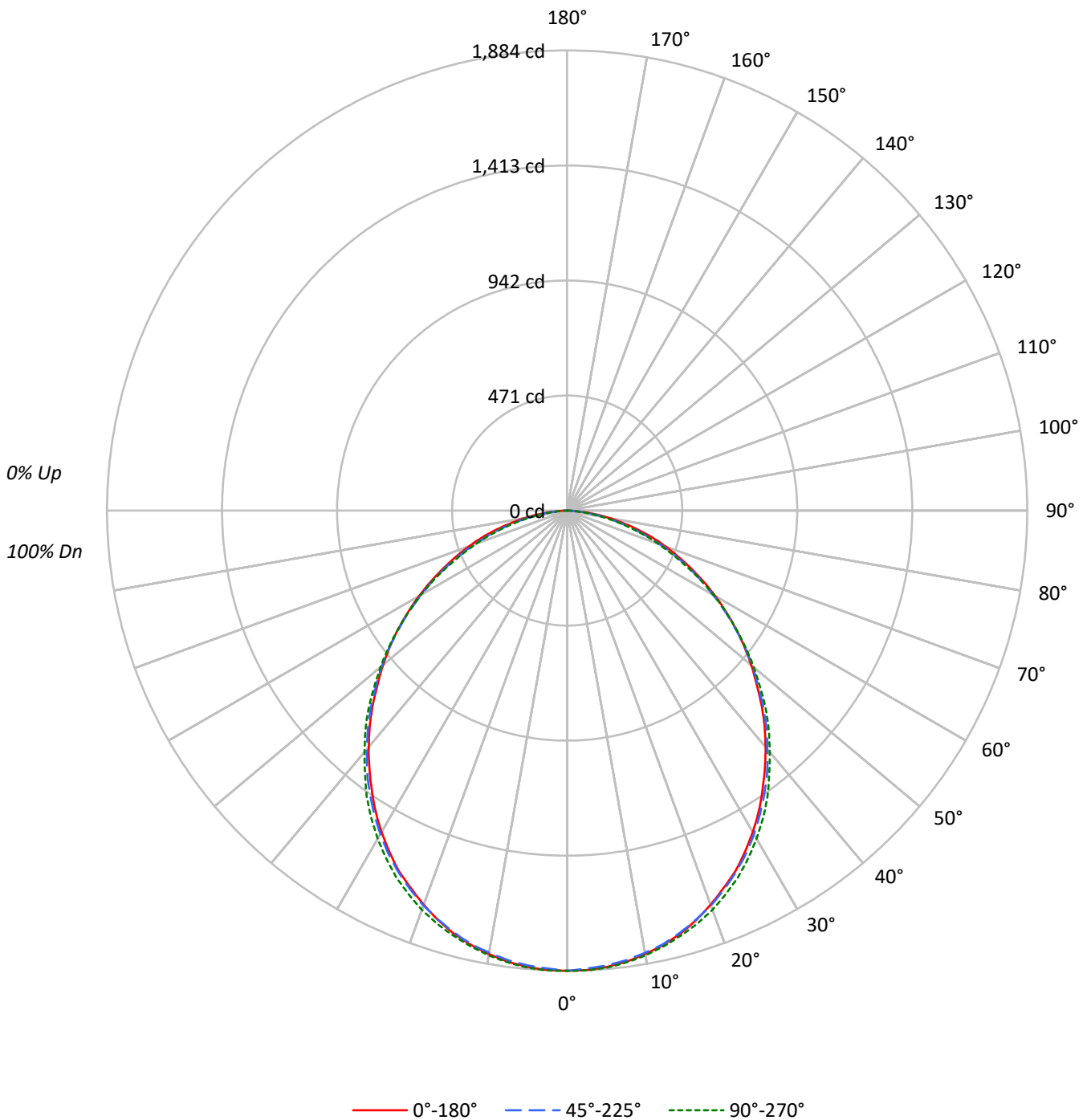
Input Watts (W): 42.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	89	91	89	87	85																												
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	76	73	71																												
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	66	63	60																												
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	42	54	47	42	52	46	42	40																												
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35																												
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	31																												
9	58	44	36	31	56	44	36	31	43	35	31	42	35	30	41	35	30	28																												
10	54	41	33	28	53	40	33	28	39	33	28	39	32	28	38	32	28	26																												

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2886	2886	2886
5°	2883	2873	2887
10°	2868	2858	2875
15°	2843	2836	2856
20°	2800	2805	2835
25°	2754	2762	2798
30°	2688	2705	2743
35°	2608	2634	2675
40°	2527	2549	2579
45°	2437	2460	2494
50°	2346	2357	2375
55°	2254	2242	2250
60°	2146	2113	2123
65°	2024	1980	1946
70°	1914	1811	1769
75°	1762	1607	1552
80°	1552	1361	1280
85°	1220	949	705



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	177.9	3.7
10°-20°	505.6	10.4
20°-30°	753.7	15.6
30°-40°	881.1	18.2
40°-50°	875.0	18.1
50°-60°	751.3	15.5
60°-70°	541.3	11.2
70°-80°	291.4	6.0
80°-90°	68.7	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°	1437.2	29.7
0°-40°	2318.3	47.8
0°-60°	3944.6	81.4
0°-90°	4846.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4846.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1884	1884	1884	1884	1884	
5°	1875	1873	1869	1875	1878	178
15°	1793	1788	1788	1799	1801	505
25°	1630	1623	1634	1651	1656	749
35°	1395	1394	1409	1424	1430	873
45°	1125	1122	1136	1145	1151	868
55°	844	836	840	844	843	754
65°	559	549	546	542	537	555
75°	298	279	272	264	262	316
85°	69	63	54	43	40	84
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1884.2	1884.2	1884.2	1884.2	1884.2
2.5°	1882.7	1881.1	1876.5	1882.7	1884.2
5°	1875.0	1873.4	1868.8	1875.0	1878.0
7.5°	1862.6	1859.5	1856.4	1862.6	1865.7
10°	1844.1	1841.0	1837.9	1845.6	1848.7
12.5°	1820.9	1817.9	1817.9	1824.0	1827.1
15°	1793.2	1788.5	1788.5	1799.3	1800.9
17.5°	1757.7	1754.6	1756.1	1768.5	1773.1
20°	1717.6	1716.0	1720.6	1734.5	1739.2
22.5°	1672.8	1671.3	1679.0	1696.0	1699.0
25°	1629.6	1623.4	1634.2	1651.2	1655.8
27.5°	1575.6	1571.0	1584.8	1600.3	1604.9
30°	1520.0	1515.4	1529.3	1546.3	1550.9
32.5°	1459.8	1456.8	1470.6	1487.6	1492.3
35°	1395.0	1393.5	1408.9	1424.4	1430.5
37.5°	1330.2	1328.7	1345.7	1358.0	1359.5
40°	1263.9	1260.8	1274.7	1288.6	1290.1
42.5°	1196.0	1191.3	1206.8	1217.6	1222.2
45°	1125.0	1121.9	1135.8	1145.0	1151.2
47.5°	1052.4	1052.4	1060.2	1071.0	1072.5
50°	984.5	979.9	989.2	995.3	996.9
52.5°	913.6	908.9	916.6	918.2	921.3
55°	844.1	836.4	839.5	844.1	842.6
57.5°	771.6	759.2	765.4	765.4	768.5
60°	700.6	689.8	689.8	689.8	692.9
62.5°	629.6	618.8	618.8	617.3	615.7
65°	558.6	549.4	546.3	541.7	537.0
67.5°	490.7	479.9	473.8	467.6	463.0
70°	427.5	408.9	404.3	395.1	395.1
72.5°	364.2	345.7	336.4	330.2	328.7
75°	297.8	279.3	271.6	263.9	262.3
77.5°	233.0	220.7	208.3	202.2	199.1
80°	175.9	165.1	154.3	143.5	145.1
82.5°	120.4	109.6	101.8	92.6	89.5
85°	69.4	63.3	54.0	43.2	40.1
87.5°	29.3	21.6	15.4	15.4	15.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)