

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: P229771

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229771
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P36038)
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-U
Description: METALUX 2X4 RLN LED TROFFER
Light Source: (252)4000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4906.0 lumens
Efficiency: N/A
Efficacy: 114.9 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

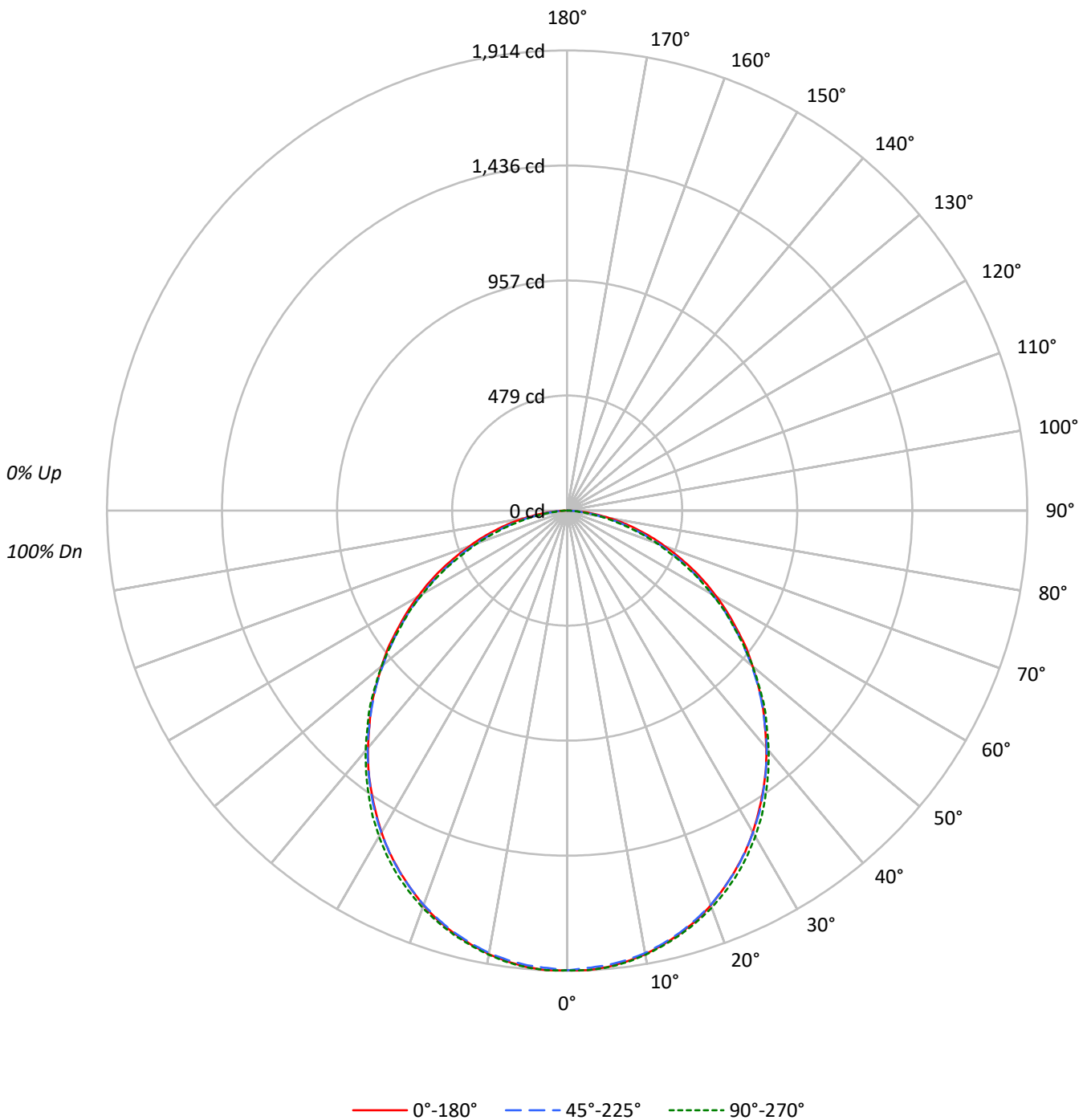
Input Watts (W): 42.7
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	89	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	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	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	40	33	28	39	33	28	39	32	28	38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2929	2929	2929
5°	2931	2919	2933
10°	2914	2907	2919
15°	2885	2880	2895
20°	2848	2845	2865
25°	2793	2796	2825
30°	2732	2735	2768
35°	2658	2661	2692
40°	2577	2583	2607
45°	2494	2487	2517
50°	2398	2383	2401
55°	2300	2271	2263
60°	2203	2137	2127
65°	2081	1991	1963
70°	1928	1811	1776
75°	1772	1598	1516
80°	1552	1334	1212
85°	1274	923	733



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	180.7	3.7
10°-20°	513.3	10.5
20°-30°	763.7	15.6
30°-40°	892.2	18.2
40°-50°	886.9	18.1
50°-60°	762.1	15.5
60°-70°	547.3	11.2
70°-80°	291.5	5.9
80°-90°	68.3	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°	1457.6	29.7
0°-40°	2349.9	47.9
0°-60°	3998.9	81.5
0°-90°	4906.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4906.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1912	1912	1912	1912	1912	
5°	1906	1903	1898	1904	1908	181
15°	1820	1820	1816	1823	1826	513
25°	1653	1653	1654	1667	1671	761
35°	1421	1418	1423	1438	1440	889
45°	1151	1142	1148	1154	1162	886
55°	861	850	850	850	847	773
65°	574	557	549	543	542	568
75°	299	282	270	262	256	319
85°	72	62	52	43	42	85
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1912.2	1912.2	1912.2	1912.2	1912.2
2.5°	1913.7	1910.7	1904.5	1912.2	1913.7
5°	1906.0	1902.9	1898.3	1904.5	1907.6
7.5°	1892.1	1889.0	1886.0	1892.1	1895.2
10°	1873.6	1872.1	1869.0	1876.7	1876.7
12.5°	1848.9	1847.4	1844.3	1852.0	1852.0
15°	1819.6	1819.6	1816.5	1822.7	1825.8
17.5°	1787.2	1785.6	1782.6	1790.3	1793.4
20°	1747.1	1747.1	1745.5	1754.8	1757.9
22.5°	1700.8	1700.8	1700.8	1713.1	1716.2
25°	1652.9	1652.9	1654.5	1666.8	1671.4
27.5°	1602.0	1600.4	1602.0	1615.9	1620.5
30°	1544.9	1541.8	1546.4	1560.3	1564.9
32.5°	1483.2	1480.1	1487.8	1500.1	1506.3
35°	1421.4	1418.3	1423.0	1438.4	1439.9
37.5°	1358.1	1350.4	1358.1	1372.0	1373.6
40°	1288.7	1282.5	1291.8	1297.9	1304.1
42.5°	1217.7	1214.6	1219.2	1230.0	1230.0
45°	1151.3	1142.1	1148.2	1154.4	1162.1
47.5°	1077.3	1072.6	1075.7	1080.3	1083.4
50°	1006.3	998.5	1000.1	1004.7	1007.8
52.5°	939.9	924.5	924.5	927.5	927.5
55°	861.2	850.4	850.4	850.4	847.3
57.5°	791.7	777.8	776.3	776.3	776.3
60°	719.2	702.2	697.6	697.6	694.5
62.5°	646.7	631.2	625.1	618.9	618.9
65°	574.1	557.1	549.4	543.3	541.7
67.5°	500.0	487.7	478.4	470.7	463.0
70°	430.6	416.7	404.4	396.6	396.6
72.5°	365.8	350.3	338.0	328.7	324.1
75°	299.4	282.4	270.1	262.4	256.2
77.5°	240.8	222.2	209.9	199.1	192.9
80°	175.9	162.1	151.2	140.4	137.4
82.5°	121.9	111.1	98.8	91.1	88.0
85°	72.5	61.7	52.5	43.2	41.7
87.5°	29.3	21.6	17.0	17.0	17.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)