

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: P296059

Luminaire Tested: **24RLN-LD5-60-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296059
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-085-1)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24RLN-LD5-60-UNV-L92765-W2A1-U-3500K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH STANDARD LENS
Light Source: (504) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5154.0 lumens
Efficiency: N/A
Efficacy: 118.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.19 / 1.29
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

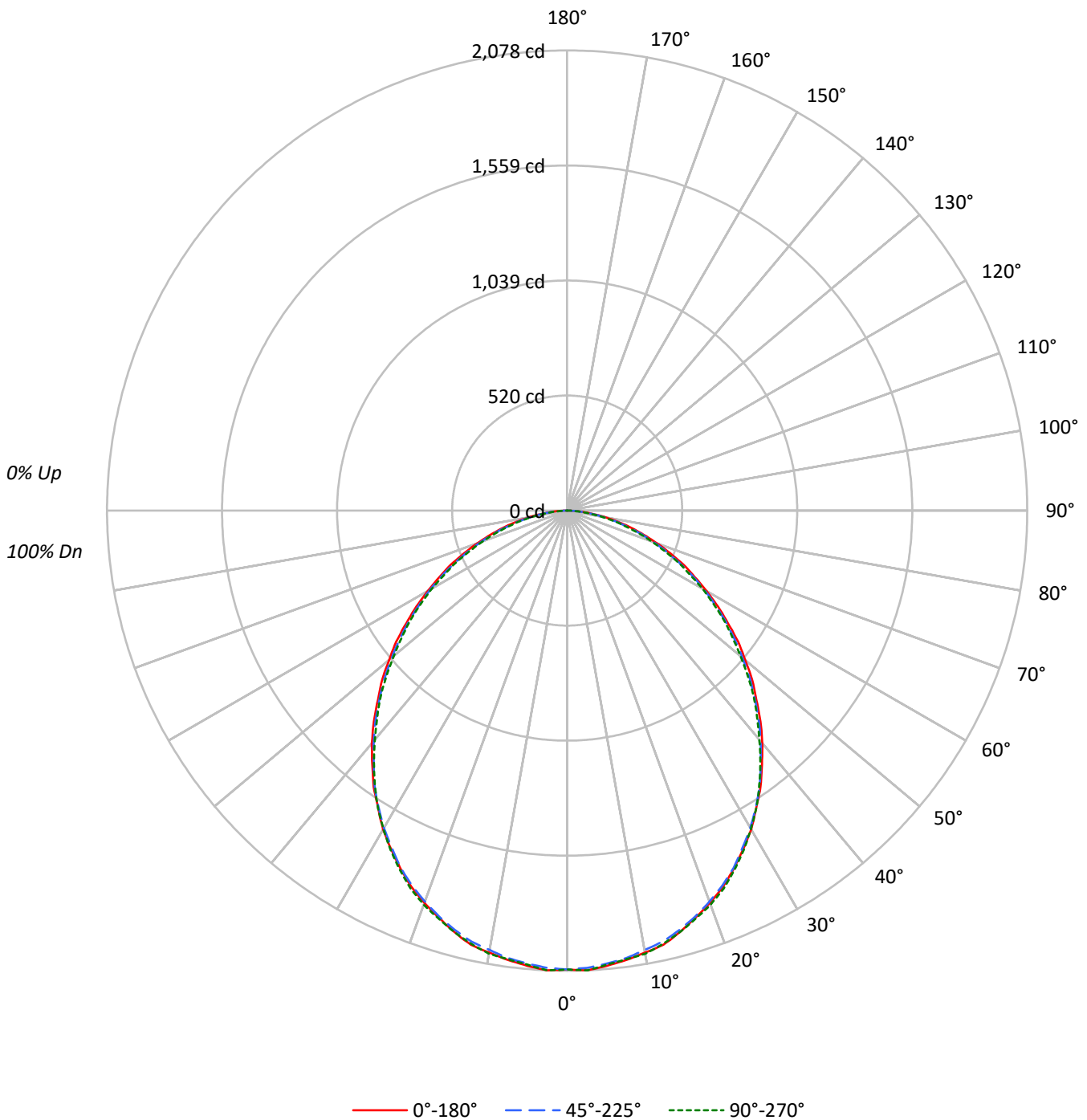
Input Watts (W): 43.338
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	74	72
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	61
4	84	72	64	57	82	71	63	57	68	62	56	66	60	55	64	59	55	52
5	77	65	56	50	75	64	55	49	62	54	49	60	53	48	58	52	48	46
6	72	59	50	44	70	58	49	43	56	48	43	54	48	43	53	47	42	40
7	66	53	45	39	65	52	44	39	51	44	38	49	43	38	48	42	38	36
8	62	49	40	35	60	48	40	35	47	39	34	45	39	34	44	38	34	32
9	58	45	37	31	57	44	36	31	43	36	31	42	36	31	41	35	31	29
10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2788	2788	2788
5°	2787	2774	2780
10°	2769	2753	2776
15°	2745	2731	2745
20°	2700	2690	2712
25°	2646	2641	2656
30°	2583	2570	2578
35°	2502	2491	2485
40°	2409	2386	2371
45°	2300	2278	2269
50°	2196	2161	2137
55°	2079	2048	2028
60°	1955	1919	1897
65°	1848	1779	1763
70°	1694	1629	1596
75°	1556	1461	1400
80°	1365	1275	1198
85°	1104	1027	872



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	195.5	3.8
10°-20°	554.2	10.8
20°-30°	819.7	15.9
30°-40°	946.0	18.4
40°-50°	924.0	17.9
50°-60°	780.3	15.1
60°-70°	555.8	10.8
70°-80°	300.9	5.8
80°-90°	77.6	1.5
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°	1569.4	30.4
0°-40°	2515.4	48.8
0°-60°	4219.7	81.9
0°-90°	5154.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5154.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2072	2072	2072	2072	2072	
5°	2063	2063	2054	2058	2058	196
15°	1970	1962	1960	1969	1970	555
25°	1782	1772	1779	1786	1789	821
35°	1523	1511	1516	1511	1513	951
45°	1209	1199	1197	1192	1192	935
55°	886	875	873	865	865	795
65°	580	569	559	552	554	572
75°	299	289	281	274	269	317
85°	72	70	66	58	56	84
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2071.8	2071.8	2071.8	2071.8	2071.8
2.5°	2078.4	2070.1	2066.8	2068.4	2078.4
5°	2063.4	2063.4	2053.5	2058.5	2058.5
7.5°	2046.8	2048.5	2038.5	2046.8	2043.5
10°	2026.9	2021.9	2015.2	2028.5	2031.9
12.5°	2008.6	1996.9	1993.6	2001.9	2003.6
15°	1970.3	1962.0	1960.4	1968.7	1970.3
17.5°	1927.1	1928.8	1922.1	1933.8	1932.1
20°	1885.5	1882.2	1878.9	1892.2	1893.8
22.5°	1839.0	1829.0	1832.3	1844.0	1847.3
25°	1782.4	1772.5	1779.1	1785.8	1789.1
27.5°	1722.6	1717.6	1715.9	1724.3	1727.6
30°	1662.7	1654.4	1654.4	1664.4	1659.4
32.5°	1589.6	1582.9	1586.2	1589.6	1591.2
35°	1523.1	1511.4	1516.4	1511.4	1513.1
37.5°	1444.9	1436.6	1434.9	1433.3	1433.3
40°	1371.8	1365.1	1358.5	1358.5	1350.1
42.5°	1291.9	1283.6	1280.3	1275.3	1270.3
45°	1208.8	1198.8	1197.2	1192.2	1192.2
47.5°	1134.0	1119.0	1117.4	1107.4	1107.4
50°	1049.2	1039.2	1032.6	1025.9	1020.9
52.5°	972.7	962.7	952.7	946.1	941.1
55°	886.2	874.6	872.9	864.6	864.6
57.5°	808.1	798.1	791.5	781.5	783.1
60°	726.6	716.6	713.3	705.0	705.0
62.5°	650.1	641.8	636.8	628.5	621.9
65°	580.3	568.7	558.7	552.0	553.7
67.5°	503.8	490.5	485.5	478.9	473.9
70°	430.6	422.3	414.0	405.7	405.7
72.5°	362.5	354.2	349.2	339.2	335.9
75°	299.3	289.3	281.0	274.4	269.4
77.5°	236.1	226.1	221.1	212.8	212.8
80°	176.2	169.6	164.6	161.3	154.6
82.5°	121.4	118.1	113.1	108.1	103.1
85°	71.5	69.8	66.5	58.2	56.5
87.5°	28.3	28.3	24.9	23.3	21.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)