

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: P296054

Luminaire Tested: **24RLN-LD5-55-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296054
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-LD5-55-UNV-L92765-W2A1-U-5500K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH STANDARD LENS
Light Source: (504) 90 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5209.0 lumens
Efficiency: N/A
Efficacy: 132.1 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

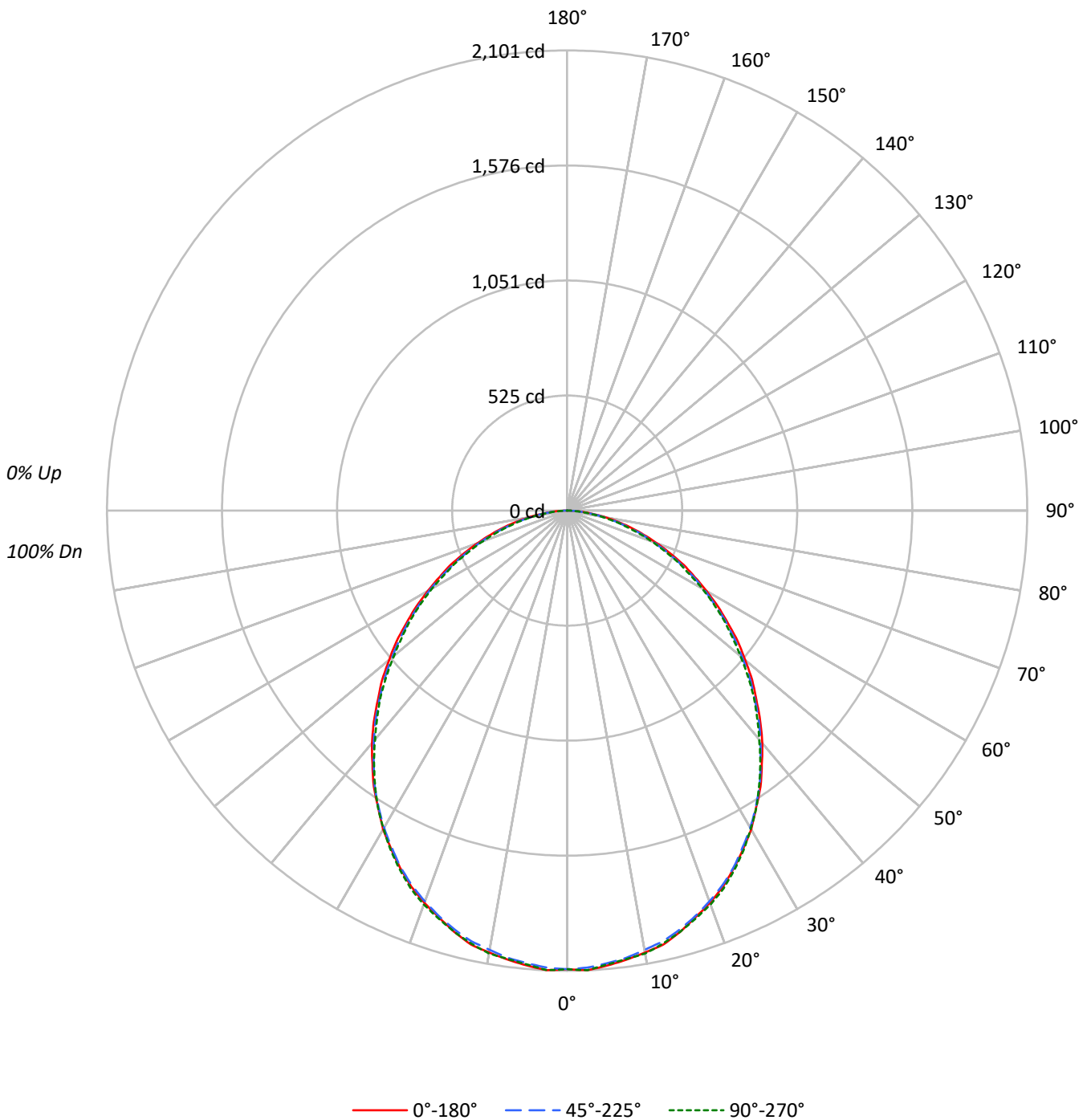
Input Watts (W): 39.432
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2817	2817	2817
5°	2817	2803	2810
10°	2799	2783	2806
15°	2774	2760	2774
20°	2729	2719	2741
25°	2674	2669	2684
30°	2611	2598	2606
35°	2528	2517	2512
40°	2435	2411	2397
45°	2325	2302	2293
50°	2220	2184	2160
55°	2101	2069	2050
60°	1976	1940	1917
65°	1867	1798	1782
70°	1712	1646	1613
75°	1573	1476	1415
80°	1380	1289	1211
85°	1116	1037	881



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	197.6	3.8
10°-20°	560.1	10.8
20°-30°	828.5	15.9
30°-40°	956.1	18.4
40°-50°	933.9	17.9
50°-60°	788.6	15.1
60°-70°	561.7	10.8
70°-80°	304.1	5.8
80°-90°	78.5	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°	1586.1	30.4
0°-40°	2542.3	48.8
0°-60°	4264.7	81.9
0°-90°	5209.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5209.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2094	2094	2094	2094	2094	
5°	2086	2086	2075	2080	2080	198
15°	1991	1983	1981	1990	1991	561
25°	1802	1791	1798	1805	1808	829
35°	1539	1528	1533	1528	1529	961
45°	1222	1212	1210	1205	1205	945
55°	896	884	882	874	874	803
65°	586	575	565	558	560	578
75°	302	292	284	277	272	320
85°	72	71	67	59	57	85
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2093.9	2093.9	2093.9	2093.9	2093.9
2.5°	2100.6	2092.2	2088.8	2090.5	2100.6
5°	2085.5	2085.5	2075.4	2080.4	2080.4
7.5°	2068.7	2070.3	2060.3	2068.7	2065.3
10°	2048.5	2043.5	2036.7	2050.2	2053.5
12.5°	2030.0	2018.2	2014.9	2023.3	2025.0
15°	1991.4	1983.0	1981.3	1989.7	1991.4
17.5°	1947.7	1949.3	1942.6	1954.4	1952.7
20°	1905.7	1902.3	1898.9	1912.4	1914.1
22.5°	1858.6	1848.5	1851.9	1863.6	1867.0
25°	1801.5	1791.4	1798.1	1804.8	1808.2
27.5°	1741.0	1735.9	1734.2	1742.7	1746.0
30°	1680.5	1672.1	1672.1	1682.2	1677.1
32.5°	1606.5	1599.8	1603.2	1606.5	1608.2
35°	1539.3	1527.6	1532.6	1527.6	1529.2
37.5°	1460.3	1451.9	1450.2	1448.6	1448.6
40°	1386.4	1379.7	1372.9	1372.9	1364.5
42.5°	1305.7	1297.3	1294.0	1288.9	1283.9
45°	1221.7	1211.6	1209.9	1204.9	1204.9
47.5°	1146.1	1131.0	1129.3	1119.2	1119.2
50°	1060.4	1050.3	1043.6	1036.9	1031.8
52.5°	983.1	973.0	962.9	956.2	951.1
55°	895.7	883.9	882.2	873.8	873.8
57.5°	816.7	806.6	799.9	789.8	791.5
60°	734.4	724.3	720.9	712.5	712.5
62.5°	657.1	648.7	643.6	635.2	628.5
65°	586.5	574.7	564.6	557.9	559.6
67.5°	509.2	495.7	490.7	484.0	478.9
70°	435.2	426.8	418.4	410.0	410.0
72.5°	366.3	357.9	352.9	342.8	339.5
75°	302.5	292.4	284.0	277.3	272.2
77.5°	238.6	228.5	223.5	215.1	215.1
80°	178.1	171.4	166.4	163.0	156.3
82.5°	122.7	119.3	114.3	109.2	104.2
85°	72.3	70.6	67.2	58.8	57.1
87.5°	28.6	28.6	25.2	23.5	21.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)