

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: P296055

Luminaire Tested: **24RLN-LD5-55-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296055
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-5700K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER WITH STANDARD LENS
Light Source: (504) 90 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5231.0 lumens
Efficiency: N/A
Efficacy: 132.3 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

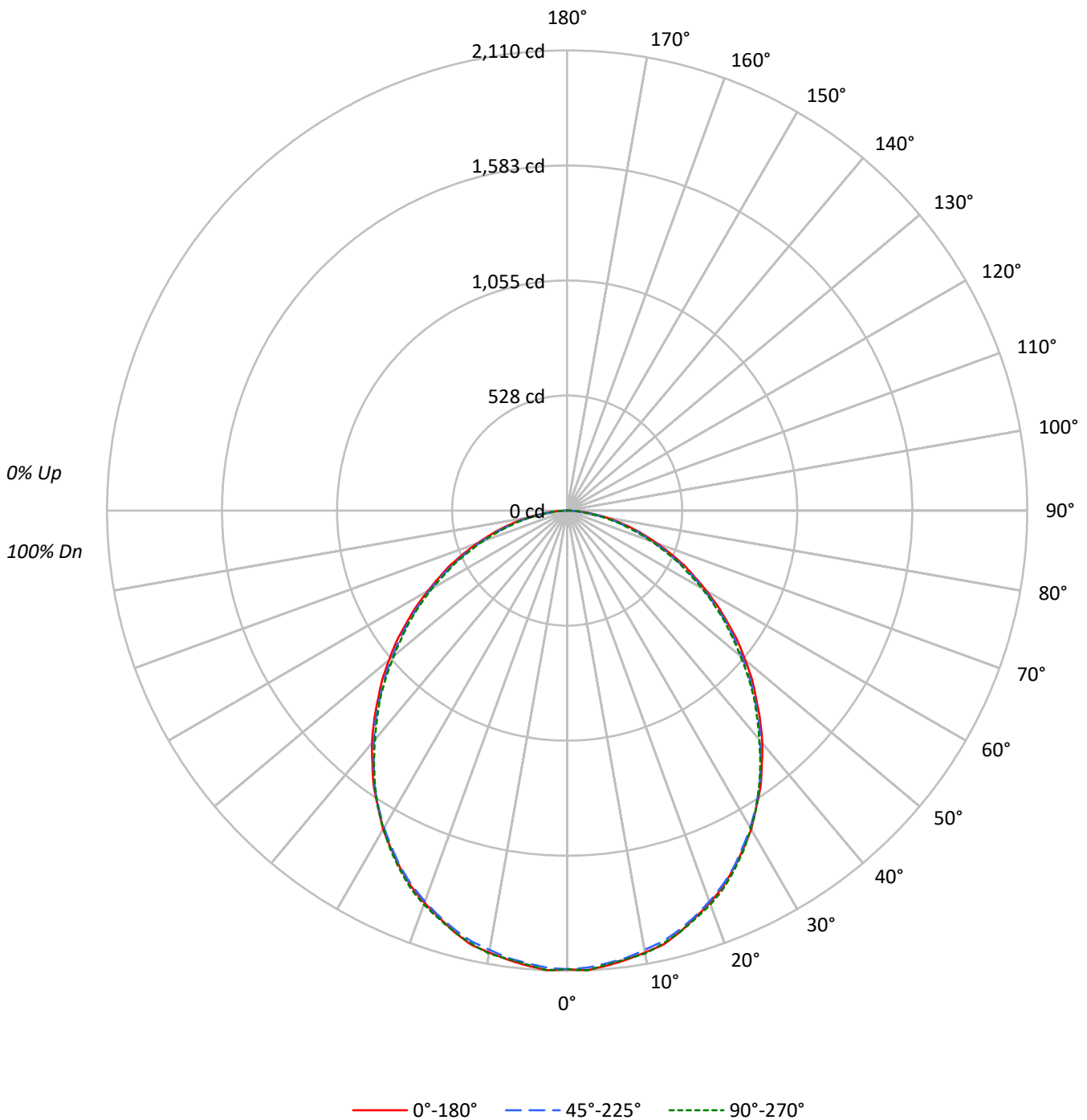
Input Watts (W): 39.525
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2829	2829	2829
5°	2829	2815	2822
10°	2811	2794	2817
15°	2786	2771	2786
20°	2740	2731	2752
25°	2686	2681	2696
30°	2622	2609	2617
35°	2539	2528	2522
40°	2445	2422	2407
45°	2335	2312	2302
50°	2229	2194	2169
55°	2110	2078	2058
60°	1985	1948	1925
65°	1875	1805	1789
70°	1720	1653	1620
75°	1579	1483	1421
80°	1386	1295	1216
85°	1121	1042	886



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	198.4	3.8
10°-20°	562.4	10.8
20°-30°	832.0	15.9
30°-40°	960.2	18.4
40°-50°	937.8	17.9
50°-60°	791.9	15.1
60°-70°	564.1	10.8
70°-80°	305.4	5.8
80°-90°	78.8	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°	1592.8	30.4
0°-40°	2553.0	48.8
0°-60°	4282.7	81.9
0°-90°	5231.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5231.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2103	2103	2103	2103	2103	
5°	2094	2094	2084	2089	2089	199
15°	2000	1991	1990	1998	2000	563
25°	1809	1799	1806	1812	1816	833
35°	1546	1534	1539	1534	1536	965
45°	1227	1217	1215	1210	1210	949
55°	900	888	886	878	878	806
65°	589	577	567	560	562	581
75°	304	294	285	278	273	321
85°	73	71	68	59	57	85
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2102.7	2102.7	2102.7	2102.7	2102.7
2.5°	2109.5	2101.0	2097.7	2099.3	2109.5
5°	2094.3	2094.3	2084.1	2089.2	2089.2
7.5°	2077.4	2079.1	2069.0	2077.4	2074.0
10°	2057.1	2052.1	2045.3	2058.8	2062.2
12.5°	2038.6	2026.8	2023.4	2031.8	2033.5
15°	1999.8	1991.3	1989.6	1998.1	1999.8
17.5°	1955.9	1957.6	1950.8	1962.6	1961.0
20°	1913.7	1910.3	1907.0	1920.5	1922.1
22.5°	1866.5	1856.3	1859.7	1871.5	1874.9
25°	1809.1	1799.0	1805.7	1812.5	1815.8
27.5°	1748.3	1743.3	1741.6	1750.0	1753.4
30°	1687.6	1679.1	1679.1	1689.3	1684.2
32.5°	1613.3	1606.6	1609.9	1613.3	1615.0
35°	1545.8	1534.0	1539.1	1534.0	1535.7
37.5°	1466.5	1458.1	1456.4	1454.7	1454.7
40°	1392.2	1385.5	1378.7	1378.7	1370.3
42.5°	1311.2	1302.8	1299.4	1294.4	1289.3
45°	1226.9	1216.7	1215.1	1210.0	1210.0
47.5°	1150.9	1135.7	1134.0	1123.9	1123.9
50°	1064.9	1054.7	1048.0	1041.2	1036.2
52.5°	987.2	977.1	967.0	960.2	955.2
55°	899.5	887.7	886.0	877.5	877.5
57.5°	820.2	810.0	803.3	793.2	794.8
60°	737.5	727.3	724.0	715.5	715.5
62.5°	659.8	651.4	646.3	637.9	631.2
65°	589.0	577.1	567.0	560.3	562.0
67.5°	511.3	497.8	492.8	486.0	481.0
70°	437.1	428.6	420.2	411.8	411.8
72.5°	367.9	359.5	354.4	344.3	340.9
75°	303.8	293.6	285.2	278.4	273.4
77.5°	239.6	229.5	224.4	216.0	216.0
80°	178.9	172.1	167.1	163.7	156.9
82.5°	123.2	119.8	114.8	109.7	104.6
85°	72.6	70.9	67.5	59.1	57.4
87.5°	28.7	28.7	25.3	23.6	21.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)