

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: P296053

Luminaire Tested: **24RLN-LD5-55-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296053
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-5000K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER WITH STANDARD LENS
Light Source: (504) 90 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5129.0 lumens
Efficiency: N/A
Efficacy: 130.7 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

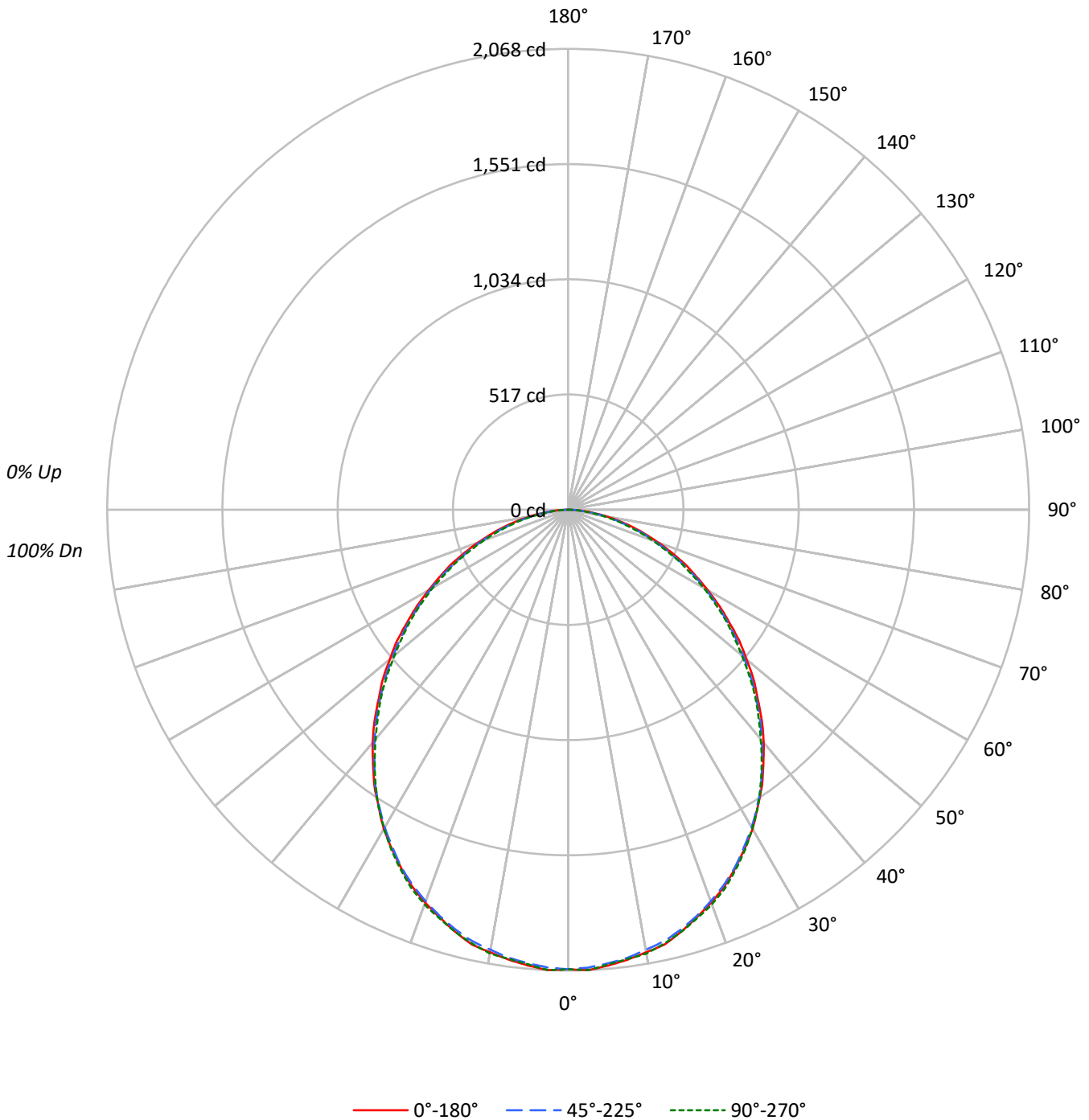
Input Watts (W): 39.246
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2774	2774	2774
5°	2773	2760	2767
10°	2756	2740	2763
15°	2731	2717	2731
20°	2687	2677	2699
25°	2633	2628	2643
30°	2571	2558	2566
35°	2490	2479	2473
40°	2398	2374	2360
45°	2289	2267	2257
50°	2186	2151	2127
55°	2069	2038	2018
60°	1946	1910	1888
65°	1839	1770	1754
70°	1686	1621	1588
75°	1548	1454	1394
80°	1359	1269	1192
85°	1099	1022	869



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	194.5	3.8
10°-20°	551.5	10.8
20°-30°	815.7	15.9
30°-40°	941.5	18.4
40°-50°	919.5	17.9
50°-60°	776.5	15.1
60°-70°	553.1	10.8
70°-80°	299.5	5.8
80°-90°	77.3	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°	1561.8	30.4
0°-40°	2503.2	48.8
0°-60°	4199.2	81.9
0°-90°	5129.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5129.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2062	2062	2062	2062	2062	
5°	2053	2053	2044	2048	2048	195
15°	1961	1952	1951	1959	1961	552
25°	1774	1764	1770	1777	1780	817
35°	1516	1504	1509	1504	1506	946
45°	1203	1193	1191	1186	1186	930
55°	882	870	869	860	860	791
65°	578	566	556	549	551	569
75°	298	288	280	273	268	315
85°	71	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°	2061.7	2061.7	2061.7	2061.7	2061.7
2.5°	2068.3	2060.1	2056.7	2058.4	2068.3
5°	2053.4	2053.4	2043.5	2048.5	2048.5
7.5°	2036.9	2038.5	2028.6	2036.9	2033.6
10°	2017.0	2012.1	2005.5	2018.7	2022.0
12.5°	1998.8	1987.3	1983.9	1992.2	1993.9
15°	1960.8	1952.5	1950.8	1959.1	1960.8
17.5°	1917.8	1919.4	1912.8	1924.4	1922.7
20°	1876.4	1873.1	1869.8	1883.0	1884.7
22.5°	1830.1	1820.1	1823.4	1835.0	1838.3
25°	1773.8	1763.9	1770.5	1777.1	1780.4
27.5°	1714.2	1709.3	1707.6	1715.9	1719.2
30°	1654.7	1646.4	1646.4	1656.3	1651.4
32.5°	1581.9	1575.2	1578.5	1581.9	1583.5
35°	1515.7	1504.1	1509.1	1504.1	1505.7
37.5°	1437.9	1429.6	1428.0	1426.3	1426.3
40°	1365.1	1358.5	1351.9	1351.9	1343.6
42.5°	1285.7	1277.4	1274.1	1269.1	1264.2
45°	1202.9	1193.0	1191.4	1186.4	1186.4
47.5°	1128.5	1113.6	1111.9	1102.0	1102.0
50°	1044.1	1034.2	1027.5	1020.9	1016.0
52.5°	968.0	958.1	948.1	941.5	936.5
55°	881.9	870.4	868.7	860.4	860.4
57.5°	804.2	794.2	787.6	777.7	779.3
60°	723.1	713.2	709.9	701.6	701.6
62.5°	647.0	638.7	633.7	625.5	618.8
65°	577.5	565.9	556.0	549.3	551.0
67.5°	501.4	488.1	483.2	476.5	471.6
70°	428.6	420.3	412.0	403.7	403.7
72.5°	360.7	352.4	347.5	337.6	334.2
75°	297.8	287.9	279.6	273.0	268.1
77.5°	235.0	225.0	220.1	211.8	211.8
80°	175.4	168.8	163.8	160.5	153.9
82.5°	120.8	117.5	112.5	107.6	102.6
85°	71.2	69.5	66.2	57.9	56.3
87.5°	28.1	28.1	24.8	23.2	21.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)