

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: P296208

Luminaire Tested: **24RLN-LD5-67-RDP-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296208
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P36059-R2)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24RLN-LD5-67-RDP-UNV-L82765-W2A1-U-3500K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (504) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5424.0 lumens
Efficiency: N/A
Efficacy: 111.1 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.3 / 1.38
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

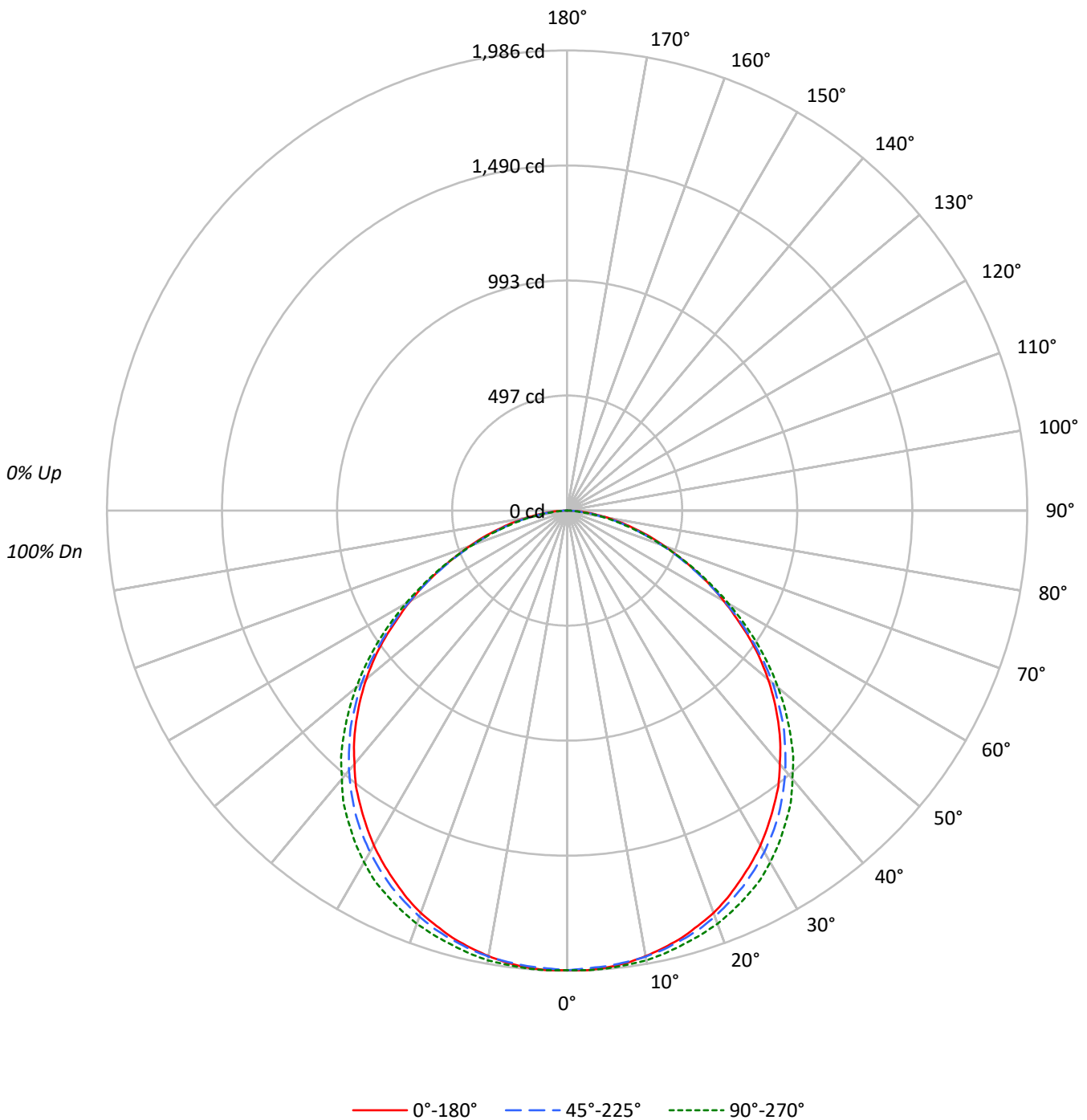
Input Watts (W): 48.825
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	73	71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	66	63	60
4	83	72	63	57	81	70	62	56	68	61	55	66	60	55	63	58	54	52
5	77	64	55	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	53	47	42	52	46	41	39
7	66	52	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37	35
8	61	48	39	34	60	47	39	34	46	39	33	45	38	33	43	37	33	31
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	27	52	40	33	27	39	32	27	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2669	2669	2669
5°	2674	2665	2679
10°	2668	2671	2693
15°	2660	2671	2700
20°	2646	2669	2716
25°	2618	2661	2725
30°	2593	2644	2724
35°	2555	2619	2700
40°	2508	2573	2656
45°	2451	2514	2592
50°	2369	2425	2489
55°	2254	2283	2351
60°	2104	2115	2171
65°	1933	1919	1965
70°	1757	1708	1716
75°	1562	1476	1465
80°	1355	1212	1180
85°	1112	858	667



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	188.1	3.5
10°-20°	542.3	10.0
20°-30°	827.8	15.3
30°-40°	998.0	18.4
40°-50°	1017.7	18.8
50°-60°	871.0	16.1
60°-70°	600.0	11.1
70°-80°	307.6	5.7
80°-90°	71.6	1.3
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°	1558.2	28.7
0°-40°	2556.2	47.1
0°-60°	4444.9	81.9
0°-90°	5424.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5424.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1984	1984	1984	1984	1984	
5°	1980	1975	1973	1980	1984	188
15°	1910	1907	1918	1932	1938	539
25°	1763	1770	1792	1823	1835	813
35°	1556	1562	1595	1630	1644	973
45°	1288	1290	1321	1354	1362	992
55°	961	955	973	994	1002	857
65°	607	593	603	607	617	603
75°	300	288	284	284	282	324
85°	72	64	56	49	43	84
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1983.6	1983.6	1983.6	1983.6	1983.6
2.5°	1985.6	1981.5	1977.4	1981.5	1985.6
5°	1979.5	1975.3	1973.3	1979.5	1983.6
7.5°	1969.2	1965.1	1965.1	1973.3	1977.4
10°	1952.7	1950.7	1954.8	1963.0	1971.2
12.5°	1932.1	1932.1	1938.3	1948.6	1956.8
15°	1909.5	1907.4	1917.7	1932.1	1938.3
17.5°	1878.6	1880.7	1895.1	1911.6	1919.8
20°	1847.8	1849.8	1864.2	1886.9	1897.2
22.5°	1808.7	1812.8	1829.3	1858.1	1868.3
25°	1763.4	1769.6	1792.2	1823.1	1835.4
27.5°	1718.1	1724.3	1749.0	1784.0	1800.4
30°	1668.8	1677.0	1701.7	1738.7	1753.1
32.5°	1613.2	1619.4	1650.2	1687.3	1701.7
35°	1555.6	1561.8	1594.7	1629.7	1644.1
37.5°	1498.0	1498.0	1530.9	1572.0	1586.5
40°	1428.0	1430.1	1465.0	1504.1	1512.4
42.5°	1362.2	1362.2	1393.0	1430.1	1444.5
45°	1288.1	1290.1	1321.0	1353.9	1362.2
47.5°	1212.0	1212.0	1238.7	1269.6	1277.8
50°	1131.7	1127.6	1158.5	1183.2	1189.3
52.5°	1049.4	1043.2	1067.9	1088.5	1096.7
55°	960.9	954.8	973.3	993.8	1002.1
57.5°	868.3	860.1	880.7	899.2	903.3
60°	781.9	769.6	786.0	796.3	806.6
62.5°	695.5	681.1	693.4	699.6	707.8
65°	607.0	592.6	602.9	607.0	617.3
67.5°	522.6	512.4	514.4	520.6	524.7
70°	446.5	434.2	434.2	434.2	436.2
72.5°	376.6	358.0	356.0	358.0	358.0
75°	300.4	288.1	284.0	284.0	281.9
77.5°	240.7	224.3	222.2	218.1	214.0
80°	174.9	160.5	156.4	154.3	152.3
82.5°	121.4	109.1	104.9	100.8	94.7
85°	72.0	63.8	55.6	49.4	43.2
87.5°	26.7	24.7	20.6	18.5	18.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)