

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: P296207

Luminaire Tested: **24RLN-LD5-67-RDP-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296207
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-3000K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (504) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5243.0 lumens
Efficiency: N/A
Efficacy: 108.6 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

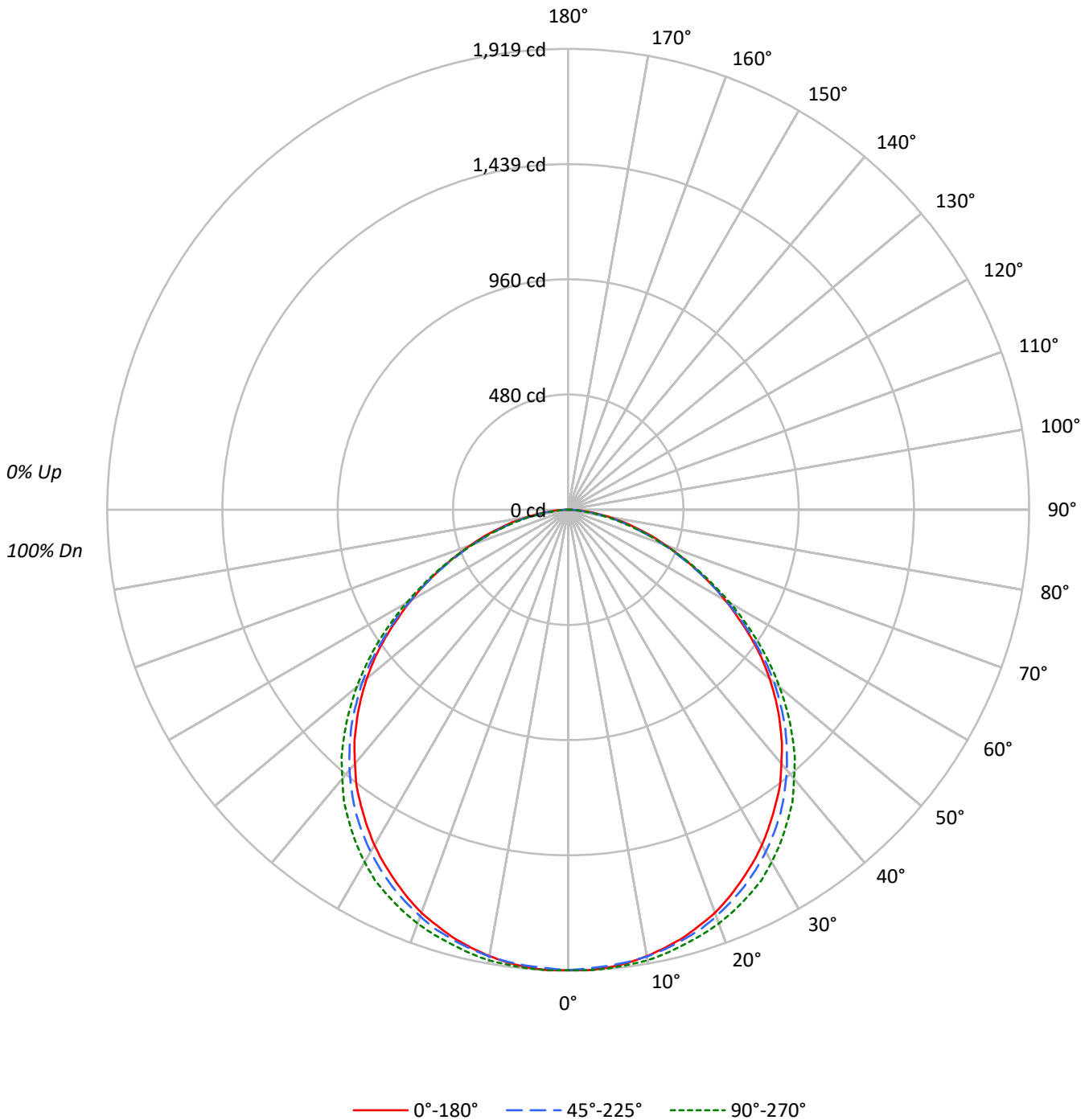
Input Watts (W): 48.267
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2580	2580	2580
5°	2584	2576	2590
10°	2579	2582	2603
15°	2571	2582	2610
20°	2557	2580	2626
25°	2531	2572	2634
30°	2506	2556	2633
35°	2470	2532	2610
40°	2425	2487	2568
45°	2369	2430	2505
50°	2290	2344	2406
55°	2179	2207	2272
60°	2034	2045	2098
65°	1868	1855	1900
70°	1698	1651	1659
75°	1510	1427	1417
80°	1310	1172	1141
85°	1074	829	645



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	181.8	3.5
10°-20°	524.2	10.0
20°-30°	800.2	15.3
30°-40°	964.7	18.4
40°-50°	983.7	18.8
50°-60°	841.9	16.1
60°-70°	579.9	11.1
70°-80°	297.3	5.7
80°-90°	69.2	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°	1506.2	28.7
0°-40°	2470.9	47.1
0°-60°	4296.6	81.9
0°-90°	5243.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5243.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1917	1917	1917	1917	1917	
5°	1913	1909	1907	1913	1917	182
15°	1846	1844	1854	1868	1874	521
25°	1705	1710	1732	1762	1774	786
35°	1504	1510	1542	1575	1589	941
45°	1245	1247	1277	1309	1317	959
55°	929	923	941	961	969	829
65°	587	573	583	587	597	583
75°	290	278	274	274	272	313
85°	70	62	54	48	42	81
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1917.4	1917.4	1917.4	1917.4	1917.4
2.5°	1919.4	1915.4	1911.4	1915.4	1919.4
5°	1913.4	1909.4	1907.4	1913.4	1917.4
7.5°	1903.5	1899.5	1899.5	1907.4	1911.4
10°	1887.6	1885.6	1889.5	1897.5	1905.5
12.5°	1867.7	1867.7	1873.6	1883.6	1891.5
15°	1845.8	1843.8	1853.7	1867.7	1873.6
17.5°	1815.9	1817.9	1831.9	1847.8	1855.7
20°	1786.1	1788.1	1802.0	1823.9	1833.8
22.5°	1748.3	1752.3	1768.2	1796.1	1806.0
25°	1704.6	1710.5	1732.4	1762.2	1774.2
27.5°	1660.8	1666.8	1690.6	1724.5	1740.4
30°	1613.1	1621.0	1644.9	1680.7	1694.6
32.5°	1559.4	1565.3	1595.2	1631.0	1644.9
35°	1503.7	1509.6	1541.5	1575.3	1589.2
37.5°	1448.0	1448.0	1479.8	1519.6	1533.5
40°	1380.4	1382.3	1416.2	1454.0	1461.9
42.5°	1316.7	1316.7	1346.5	1382.3	1396.3
45°	1245.1	1247.1	1276.9	1308.8	1316.7
47.5°	1171.5	1171.5	1197.4	1227.2	1235.2
50°	1093.9	1090.0	1119.8	1143.7	1149.6
52.5°	1014.4	1008.4	1032.3	1052.2	1060.1
55°	928.9	922.9	940.8	960.7	968.6
57.5°	839.4	831.4	851.3	869.2	873.2
60°	755.8	743.9	759.8	769.7	779.7
62.5°	672.3	658.4	670.3	676.3	684.2
65°	586.8	572.8	582.8	586.8	596.7
67.5°	505.2	495.3	497.2	503.2	507.2
70°	431.6	419.7	419.7	419.7	421.7
72.5°	364.0	346.1	344.1	346.1	346.1
75°	290.4	278.5	274.5	274.5	272.5
77.5°	232.7	216.8	214.8	210.8	206.9
80°	169.1	155.1	151.2	149.2	147.2
82.5°	117.4	105.4	101.4	97.5	91.5
85°	69.6	61.7	53.7	47.7	41.8
87.5°	25.9	23.9	19.9	17.9	17.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)