

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: P296353

Luminaire Tested: **24RLN-LD5-67-RDP-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296353
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-L92765-W2A1-U-5700K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (504) 90 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5235.0 lumens
Efficiency: N/A
Efficacy: 104.4 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

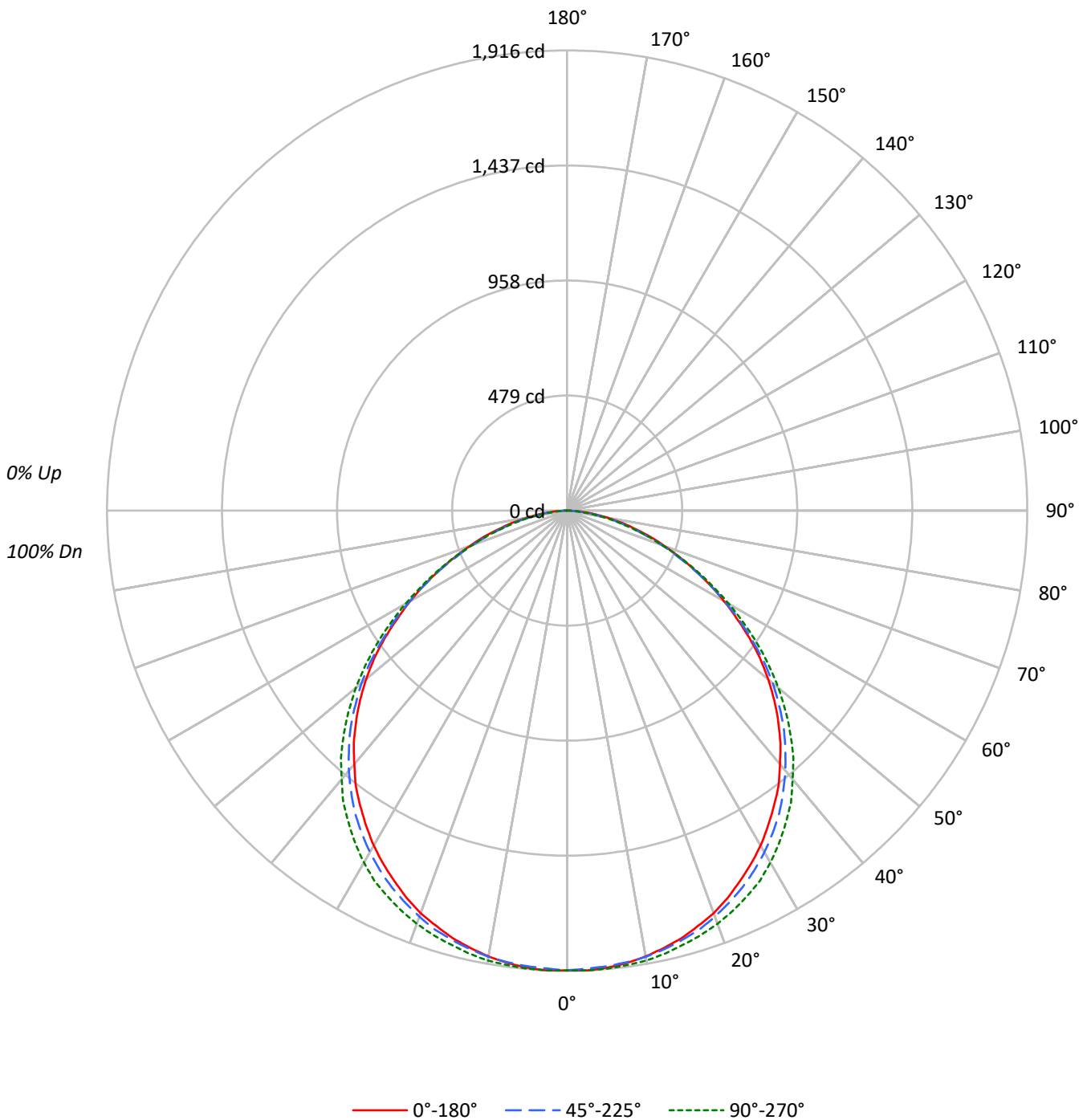
Input Watts (W): 50.127
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2576	2576	2576
5°	2580	2572	2586
10°	2575	2578	2599
15°	2567	2578	2606
20°	2554	2576	2622
25°	2527	2568	2630
30°	2502	2552	2629
35°	2466	2528	2606
40°	2421	2484	2564
45°	2366	2426	2502
50°	2286	2340	2403
55°	2175	2204	2269
60°	2031	2041	2095
65°	1865	1853	1897
70°	1696	1648	1656
75°	1507	1425	1415
80°	1308	1169	1139
85°	1073	827	644



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	181.6	3.5
10°-20°	523.4	10.0
20°-30°	799.0	15.3
30°-40°	963.2	18.4
40°-50°	982.2	18.8
50°-60°	840.6	16.1
60°-70°	579.1	11.1
70°-80°	296.9	5.7
80°-90°	69.1	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°	1503.9	28.7
0°-40°	2467.1	47.1
0°-60°	4290.0	81.9
0°-90°	5235.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5235.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1914	1914	1914	1914	1914	
5°	1910	1906	1904	1910	1914	182
15°	1843	1841	1851	1865	1871	520
25°	1702	1708	1730	1760	1772	785
35°	1501	1507	1539	1573	1587	939
45°	1243	1245	1275	1307	1315	958
55°	927	922	939	959	967	827
65°	586	572	582	586	596	582
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°	1914.5	1914.5	1914.5	1914.5	1914.5
2.5°	1916.4	1912.5	1908.5	1912.5	1916.4
5°	1910.5	1906.5	1904.5	1910.5	1914.5
7.5°	1900.6	1896.6	1896.6	1904.5	1908.5
10°	1884.7	1882.7	1886.7	1894.6	1902.5
12.5°	1864.8	1864.8	1870.8	1880.7	1888.6
15°	1843.0	1841.0	1850.9	1864.8	1870.8
17.5°	1813.2	1815.2	1829.1	1845.0	1852.9
20°	1783.4	1785.4	1799.3	1821.1	1831.0
22.5°	1745.7	1749.6	1765.5	1793.3	1803.2
25°	1702.0	1707.9	1729.8	1759.6	1771.5
27.5°	1658.3	1664.2	1688.1	1721.8	1737.7
30°	1610.6	1618.6	1642.4	1678.1	1692.0
32.5°	1557.0	1562.9	1592.7	1628.5	1642.4
35°	1501.4	1507.3	1539.1	1572.9	1586.8
37.5°	1445.8	1445.8	1477.5	1517.3	1531.2
40°	1378.3	1380.2	1414.0	1451.7	1459.7
42.5°	1314.7	1314.7	1344.5	1380.2	1394.1
45°	1243.2	1245.2	1275.0	1306.8	1314.7
47.5°	1169.7	1169.7	1195.5	1225.3	1233.3
50°	1092.3	1088.3	1118.1	1141.9	1147.9
52.5°	1012.8	1006.9	1030.7	1050.6	1058.5
55°	927.4	921.5	939.4	959.2	967.2
57.5°	838.1	830.1	850.0	867.9	871.8
60°	754.7	742.7	758.6	768.6	778.5
62.5°	671.3	657.4	669.3	675.2	683.2
65°	585.9	572.0	581.9	585.9	595.8
67.5°	504.4	494.5	496.5	502.4	506.4
70°	431.0	419.0	419.0	419.0	421.0
72.5°	363.4	345.6	343.6	345.6	345.6
75°	289.9	278.0	274.1	274.1	272.1
77.5°	232.4	216.5	214.5	210.5	206.5
80°	168.8	154.9	150.9	148.9	147.0
82.5°	117.2	105.3	101.3	97.3	91.4
85°	69.5	61.6	53.6	47.7	41.7
87.5°	25.8	23.8	19.9	17.9	17.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)