

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: P296047

Luminaire Tested: **24RLN-LD5-50-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296047
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-LD5-50-UNV-L92765-W2A1-U-6500K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER WITH STANDARD LENS
Light Source: (504) 90 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4737.0 lumens
Efficiency: N/A
Efficacy: 129.3 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

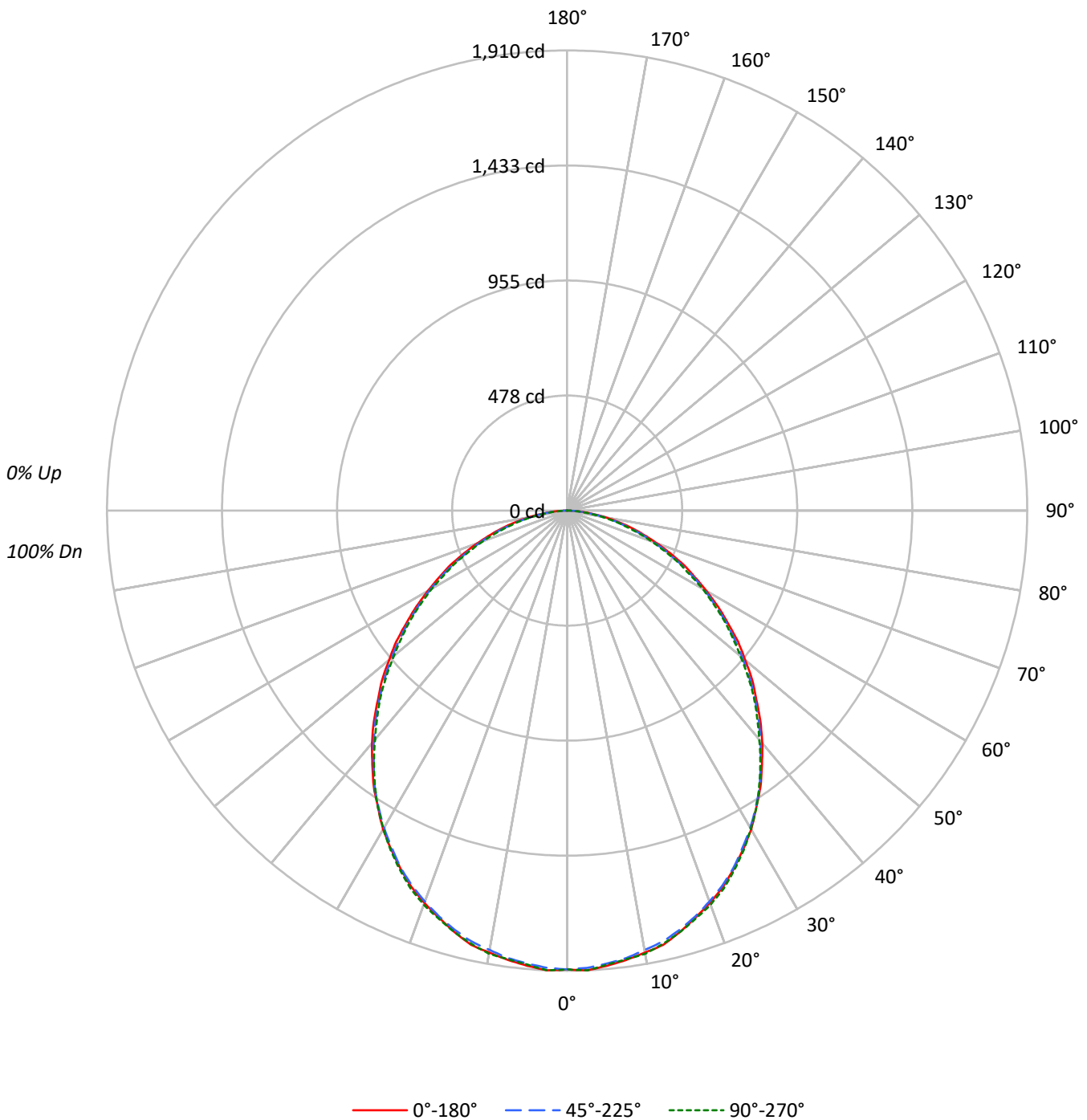
Input Watts (W): 36.642
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2562	2562	2562
5°	2561	2549	2555
10°	2545	2531	2551
15°	2522	2510	2522
20°	2481	2473	2492
25°	2432	2428	2441
30°	2374	2362	2369
35°	2299	2289	2284
40°	2214	2193	2180
45°	2114	2094	2085
50°	2018	1986	1964
55°	1911	1882	1864
60°	1797	1764	1744
65°	1698	1635	1620
70°	1557	1497	1467
75°	1430	1343	1287
80°	1255	1172	1101
85°	1014	943	803



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	179.7	3.8
10°-20°	509.3	10.8
20°-30°	753.4	15.9
30°-40°	869.5	18.4
40°-50°	849.2	17.9
50°-60°	717.1	15.1
60°-70°	510.8	10.8
70°-80°	276.6	5.8
80°-90°	71.4	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°	1442.4	30.4
0°-40°	2311.9	48.8
0°-60°	3878.3	81.9
0°-90°	4737.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4737.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1904	1904	1904	1904	1904	
5°	1896	1896	1887	1892	1892	180
15°	1811	1803	1802	1809	1811	510
25°	1638	1629	1635	1641	1644	754
35°	1400	1389	1394	1389	1391	874
45°	1111	1102	1100	1096	1096	859
55°	814	804	802	795	795	730
65°	533	523	514	507	509	526
75°	275	266	258	252	248	291
85°	66	64	61	54	52	77
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1904.1	1904.1	1904.1	1904.1	1904.1
2.5°	1910.3	1902.6	1899.6	1901.1	1910.3
5°	1896.5	1896.5	1887.3	1891.9	1891.9
7.5°	1881.2	1882.7	1873.6	1881.2	1878.2
10°	1862.9	1858.3	1852.2	1864.4	1867.5
12.5°	1846.1	1835.4	1832.3	1840.0	1841.5
15°	1810.9	1803.3	1801.7	1809.4	1810.9
17.5°	1771.2	1772.7	1766.6	1777.3	1775.8
20°	1733.0	1729.9	1726.9	1739.1	1740.6
22.5°	1690.2	1681.0	1684.1	1694.8	1697.8
25°	1638.2	1629.1	1635.2	1641.3	1644.3
27.5°	1583.2	1578.6	1577.1	1584.7	1587.8
30°	1528.2	1520.6	1520.6	1529.7	1525.1
32.5°	1461.0	1454.8	1457.9	1461.0	1462.5
35°	1399.8	1389.1	1393.7	1389.1	1390.7
37.5°	1328.0	1320.4	1318.8	1317.3	1317.3
40°	1260.8	1254.7	1248.5	1248.5	1240.9
42.5°	1187.4	1179.8	1176.7	1172.1	1167.5
45°	1111.0	1101.8	1100.3	1095.7	1095.7
47.5°	1042.2	1028.5	1027.0	1017.8	1017.8
50°	964.3	955.1	949.0	942.9	938.3
52.5°	894.0	884.8	875.7	869.5	865.0
55°	814.5	803.8	802.3	794.7	794.7
57.5°	742.7	733.5	727.4	718.3	719.8
60°	667.8	658.7	655.6	648.0	648.0
62.5°	597.5	589.9	585.3	577.7	571.5
65°	533.3	522.6	513.5	507.4	508.9
67.5°	463.0	450.8	446.2	440.1	435.5
70°	395.8	388.2	380.5	372.9	372.9
72.5°	333.1	325.5	320.9	311.8	308.7
75°	275.1	265.9	258.3	252.2	247.6
77.5°	217.0	207.8	203.3	195.6	195.6
80°	162.0	155.9	151.3	148.2	142.1
82.5°	111.6	108.5	103.9	99.3	94.7
85°	65.7	64.2	61.1	53.5	52.0
87.5°	26.0	26.0	22.9	21.4	19.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)