

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: P295900

Luminaire Tested: **24RLN-LD5-50-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295900
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-L82765-W2A1-U-3000K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH STANDARD LENS
Light Source: (504) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4712.0 lumens
Efficiency: N/A
Efficacy: 135.8 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

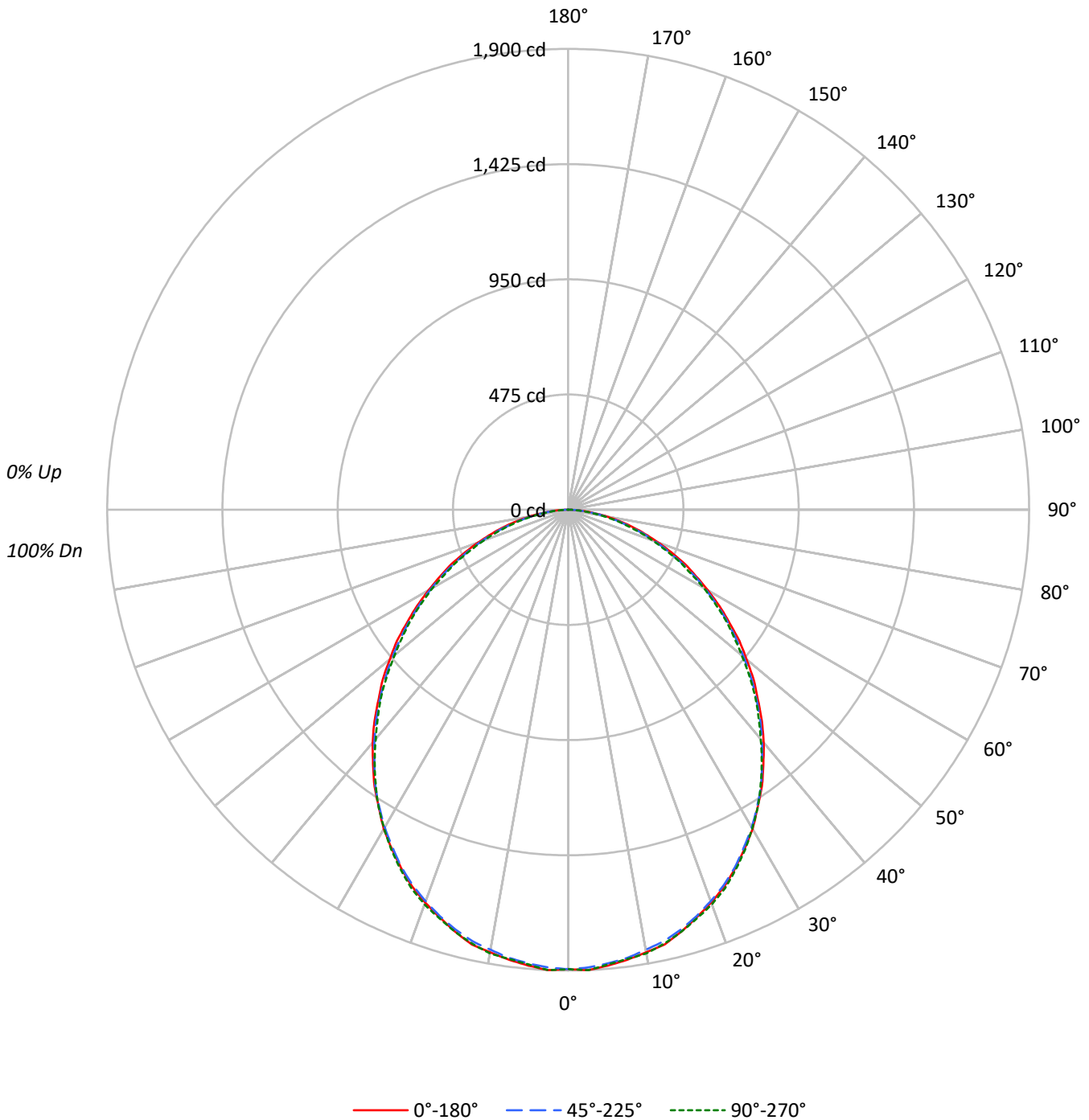
Input Watts (W): 34.689
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2548	2548	2548
5°	2548	2536	2542
10°	2532	2517	2538
15°	2509	2496	2509
20°	2468	2460	2479
25°	2419	2415	2428
30°	2362	2350	2357
35°	2287	2277	2272
40°	2203	2181	2168
45°	2103	2083	2074
50°	2008	1976	1954
55°	1901	1872	1854
60°	1788	1755	1734
65°	1689	1626	1612
70°	1549	1489	1459
75°	1422	1336	1280
80°	1248	1166	1096
85°	1010	939	798



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	178.7	3.8
10°-20°	506.6	10.8
20°-30°	749.4	15.9
30°-40°	864.9	18.4
40°-50°	844.7	17.9
50°-60°	713.4	15.1
60°-70°	508.1	10.8
70°-80°	275.1	5.8
80°-90°	71.0	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°	1434.8	30.4
0°-40°	2299.7	48.8
0°-60°	3857.8	81.9
0°-90°	4712.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4712.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1894	1894	1894	1894	1894	
5°	1886	1886	1877	1882	1882	179
15°	1801	1794	1792	1800	1801	507
25°	1630	1620	1626	1633	1636	750
35°	1392	1382	1386	1382	1383	869
45°	1105	1096	1094	1090	1090	855
55°	810	800	798	790	790	726
65°	530	520	511	505	506	523
75°	274	264	257	251	246	290
85°	65	64	61	53	52	77
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1894.1	1894.1	1894.1	1894.1	1894.1
2.5°	1900.2	1892.6	1889.5	1891.0	1900.2
5°	1886.5	1886.5	1877.4	1881.9	1881.9
7.5°	1871.3	1872.8	1863.7	1871.3	1868.2
10°	1853.0	1848.5	1842.4	1854.6	1857.6
12.5°	1836.3	1825.7	1822.6	1830.2	1831.8
15°	1801.4	1793.8	1792.2	1799.8	1801.4
17.5°	1761.8	1763.4	1757.3	1767.9	1766.4
20°	1723.8	1720.8	1717.8	1729.9	1731.4
22.5°	1681.3	1672.1	1675.2	1685.8	1688.9
25°	1629.6	1620.5	1626.5	1632.6	1635.7
27.5°	1574.9	1570.3	1568.8	1576.4	1579.4
30°	1520.1	1512.5	1512.5	1521.7	1517.1
32.5°	1453.3	1447.2	1450.2	1453.3	1454.8
35°	1392.4	1381.8	1386.4	1381.8	1383.3
37.5°	1321.0	1313.4	1311.9	1310.4	1310.4
40°	1254.1	1248.0	1242.0	1242.0	1234.4
42.5°	1181.1	1173.5	1170.5	1165.9	1161.4
45°	1105.1	1096.0	1094.5	1089.9	1089.9
47.5°	1036.7	1023.1	1021.5	1012.4	1012.4
50°	959.2	950.1	944.0	937.9	933.4
52.5°	889.3	880.2	871.0	865.0	860.4
55°	810.2	799.6	798.1	790.5	790.5
57.5°	738.8	729.7	723.6	714.5	716.0
60°	664.3	655.2	652.1	644.5	644.5
62.5°	594.4	586.8	582.2	574.6	568.5
65°	530.5	519.9	510.8	504.7	506.2
67.5°	460.6	448.4	443.9	437.8	433.2
70°	393.7	386.1	378.5	370.9	370.9
72.5°	331.4	323.8	319.2	310.1	307.1
75°	273.6	264.5	256.9	250.8	246.3
77.5°	215.9	206.7	202.2	194.6	194.6
80°	161.1	155.1	150.5	147.5	141.4
82.5°	111.0	107.9	103.4	98.8	94.2
85°	65.4	63.8	60.8	53.2	51.7
87.5°	25.8	25.8	22.8	21.3	19.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)