

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: P296043

Luminaire Tested: **24RLN-LD5-50-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296043
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-4500K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH STANDARD LENS
Light Source: (504) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4522.0 lumens
Efficiency: N/A
Efficacy: 127.0 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

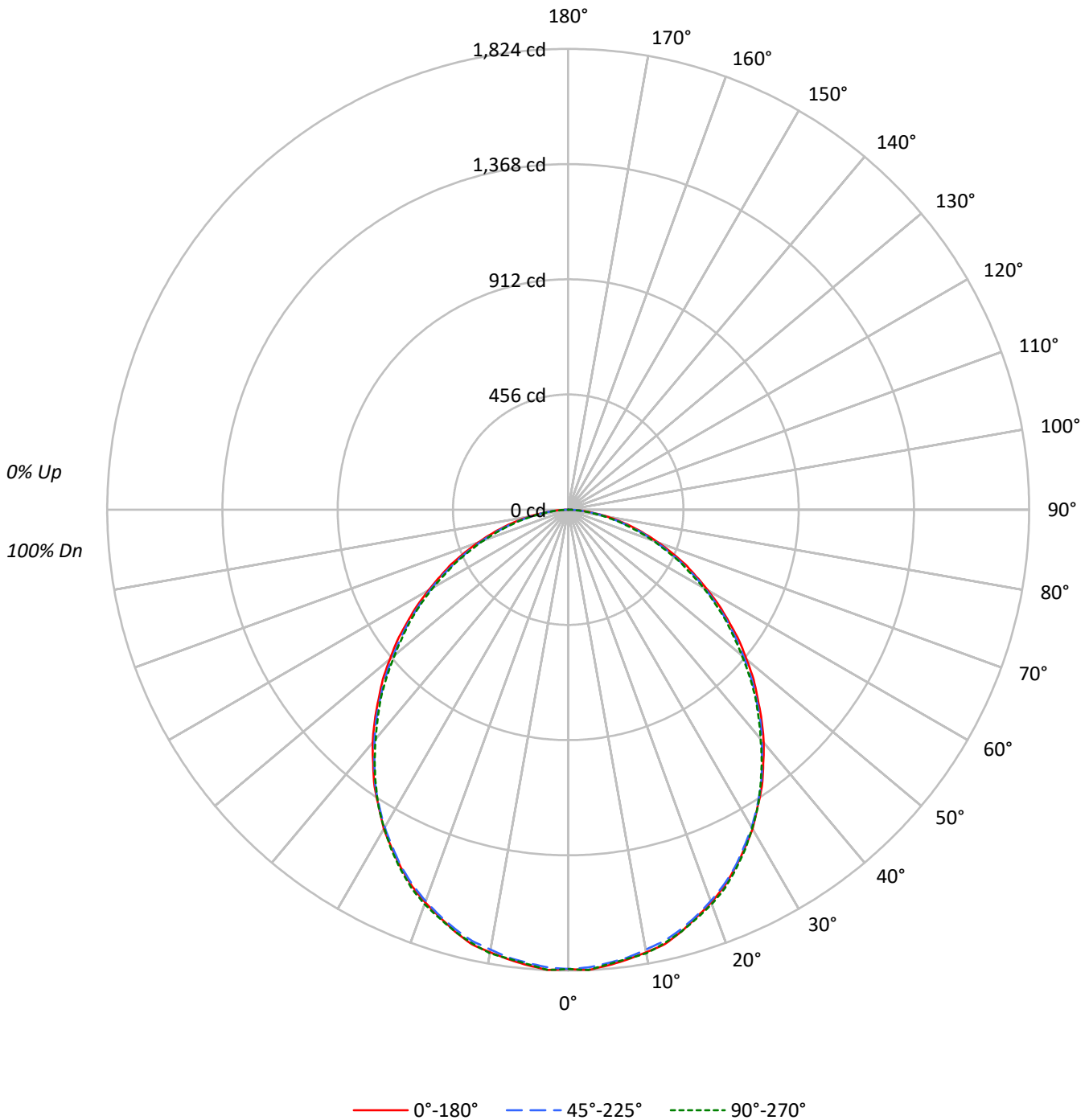
Input Watts (W): 35.619
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2446	2446	2446
5°	2445	2433	2439
10°	2430	2416	2436
15°	2408	2396	2408
20°	2369	2360	2379
25°	2322	2317	2330
30°	2266	2255	2262
35°	2195	2185	2180
40°	2114	2093	2081
45°	2018	1999	1990
50°	1927	1896	1875
55°	1824	1797	1780
60°	1715	1684	1664
65°	1621	1561	1547
70°	1486	1429	1400
75°	1365	1281	1228
80°	1198	1119	1051
85°	968	902	766



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.5	3.8
10°-20°	486.2	10.8
20°-30°	719.2	15.9
30°-40°	830.0	18.4
40°-50°	810.7	17.9
50°-60°	684.6	15.1
60°-70°	487.6	10.8
70°-80°	264.0	5.8
80°-90°	68.1	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°	1376.9	30.4
0°-40°	2207.0	48.8
0°-60°	3702.2	81.9
0°-90°	4522.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4522.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1818	1818	1818	1818	1818	
5°	1810	1810	1802	1806	1806	172
15°	1729	1721	1720	1727	1729	487
25°	1564	1555	1561	1567	1570	720
35°	1336	1326	1330	1326	1328	834
45°	1061	1052	1050	1046	1046	820
55°	778	767	766	759	759	697
65°	509	499	490	484	486	502
75°	263	254	246	241	236	278
85°	63	61	58	51	50	74
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1817.7	1817.7	1817.7	1817.7	1817.7
2.5°	1823.6	1816.3	1813.3	1814.8	1823.6
5°	1810.4	1810.4	1801.7	1806.0	1806.0
7.5°	1795.8	1797.3	1788.5	1795.8	1792.9
10°	1778.3	1774.0	1768.1	1779.8	1782.7
12.5°	1762.3	1752.1	1749.1	1756.4	1757.9
15°	1728.7	1721.4	1720.0	1727.3	1728.7
17.5°	1690.8	1692.3	1686.4	1696.6	1695.2
20°	1654.3	1651.4	1648.5	1660.2	1661.6
22.5°	1613.5	1604.7	1607.6	1617.9	1620.8
25°	1563.9	1555.1	1561.0	1566.8	1569.7
27.5°	1511.4	1507.0	1505.5	1512.8	1515.7
30°	1458.8	1451.5	1451.5	1460.3	1455.9
32.5°	1394.7	1388.8	1391.7	1394.7	1396.1
35°	1336.3	1326.1	1330.5	1326.1	1327.5
37.5°	1267.7	1260.4	1259.0	1257.5	1257.5
40°	1203.5	1197.7	1191.9	1191.9	1184.6
42.5°	1133.5	1126.2	1123.3	1118.9	1114.6
45°	1060.6	1051.8	1050.4	1046.0	1046.0
47.5°	994.9	981.8	980.3	971.6	971.6
50°	920.5	911.8	905.9	900.1	895.7
52.5°	853.4	844.7	835.9	830.1	825.7
55°	777.6	767.4	765.9	758.6	758.6
57.5°	709.0	700.2	694.4	685.7	687.1
60°	637.5	628.8	625.8	618.5	618.5
62.5°	570.4	563.1	558.7	551.4	545.6
65°	509.1	498.9	490.2	484.3	485.8
67.5°	442.0	430.4	426.0	420.1	415.8
70°	377.8	370.5	363.3	356.0	356.0
72.5°	318.0	310.7	306.4	297.6	294.7
75°	262.6	253.8	246.5	240.7	236.3
77.5°	207.2	198.4	194.0	186.7	186.7
80°	154.6	148.8	144.4	141.5	135.7
82.5°	106.5	103.6	99.2	94.8	90.4
85°	62.7	61.3	58.4	51.1	49.6
87.5°	24.8	24.8	21.9	20.4	19.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)