

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: P295835

Luminaire Tested: **24RLN-LD5-50-UNV-L83050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295835
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-L83050-W2A1-U-4000K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH STANDARD LENS
Light Source: (504) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5241.0 lumens
Efficiency: N/A
Efficacy: 146.4 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

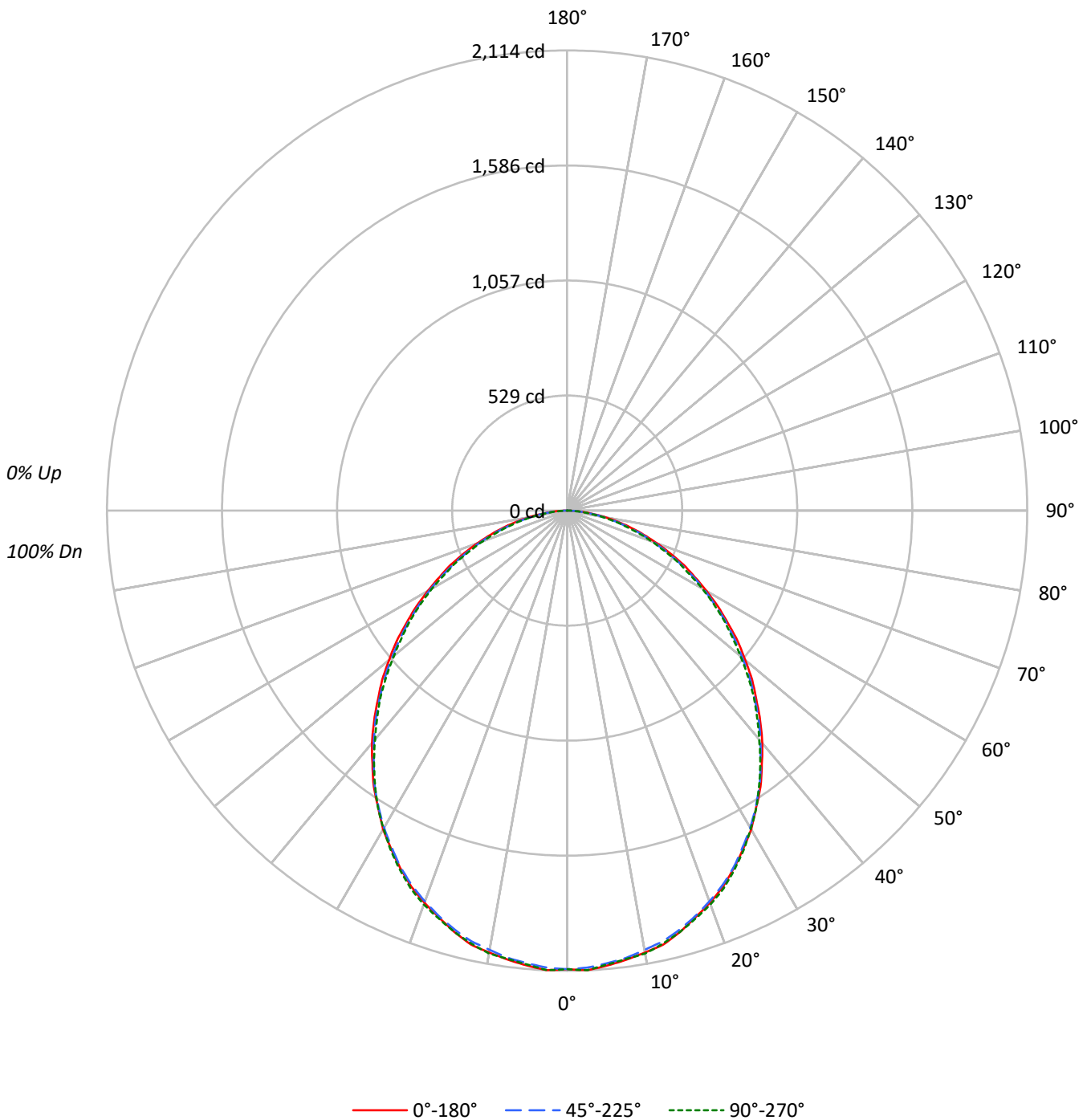
Input Watts (W): 35.805
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2835	2835	2835
5°	2834	2820	2827
10°	2816	2800	2823
15°	2791	2777	2791
20°	2745	2736	2757
25°	2691	2686	2701
30°	2627	2614	2622
35°	2544	2533	2527
40°	2450	2426	2411
45°	2339	2316	2307
50°	2233	2198	2173
55°	2114	2082	2062
60°	1988	1952	1929
65°	1879	1809	1792
70°	1723	1656	1623
75°	1582	1485	1424
80°	1389	1297	1218
85°	1122	1044	888



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	198.8	3.8
10°-20°	563.5	10.8
20°-30°	833.6	15.9
30°-40°	962.0	18.4
40°-50°	939.6	17.9
50°-60°	793.4	15.1
60°-70°	565.1	10.8
70°-80°	306.0	5.8
80°-90°	78.9	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°	1595.9	30.4
0°-40°	2557.9	48.8
0°-60°	4290.9	81.9
0°-90°	5241.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5241.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2107	2107	2107	2107	2107	
5°	2098	2098	2088	2093	2093	199
15°	2004	1995	1993	2002	2004	564
25°	1812	1802	1809	1816	1819	834
35°	1549	1537	1542	1537	1539	967
45°	1229	1219	1217	1212	1212	950
55°	901	889	888	879	879	808
65°	590	578	568	561	563	582
75°	304	294	286	279	274	322
85°	73	71	68	59	58	86
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2106.7	2106.7	2106.7	2106.7	2106.7
2.5°	2113.5	2105.0	2101.7	2103.4	2113.5
5°	2098.3	2098.3	2088.1	2093.2	2093.2
7.5°	2081.4	2083.1	2072.9	2081.4	2078.0
10°	2061.1	2056.0	2049.2	2062.8	2066.2
12.5°	2042.5	2030.6	2027.3	2035.7	2037.4
15°	2003.6	1995.1	1993.4	2001.9	2003.6
17.5°	1959.6	1961.3	1954.6	1966.4	1964.7
20°	1917.4	1914.0	1910.6	1924.1	1925.8
22.5°	1870.0	1859.9	1863.3	1875.1	1878.5
25°	1812.5	1802.4	1809.2	1815.9	1819.3
27.5°	1751.7	1746.6	1744.9	1753.4	1756.7
30°	1690.8	1682.3	1682.3	1692.5	1687.4
32.5°	1616.4	1609.6	1613.0	1616.4	1618.1
35°	1548.8	1536.9	1542.0	1536.9	1538.6
37.5°	1469.3	1460.8	1459.2	1457.5	1457.5
40°	1394.9	1388.1	1381.4	1381.4	1372.9
42.5°	1313.7	1305.3	1301.9	1296.8	1291.8
45°	1229.2	1219.1	1217.4	1212.3	1212.3
47.5°	1153.1	1137.9	1136.2	1126.1	1126.1
50°	1066.9	1056.7	1050.0	1043.2	1038.1
52.5°	989.1	979.0	968.8	962.1	957.0
55°	901.2	889.4	887.7	879.2	879.2
57.5°	821.7	811.6	804.8	794.7	796.4
60°	738.9	728.7	725.4	716.9	716.9
62.5°	661.1	652.6	647.6	639.1	632.4
65°	590.1	578.3	568.1	561.3	563.0
67.5°	512.3	498.8	493.7	486.9	481.9
70°	437.9	429.5	421.0	412.6	412.6
72.5°	368.6	360.1	355.1	344.9	341.5
75°	304.3	294.2	285.7	279.0	273.9
77.5°	240.1	229.9	224.9	216.4	216.4
80°	179.2	172.5	167.4	164.0	157.2
82.5°	123.4	120.0	115.0	109.9	104.8
85°	72.7	71.0	67.6	59.2	57.5
87.5°	28.7	28.7	25.4	23.7	22.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)