

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: P295910

Luminaire Tested: **24RLN-LD5-55-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295910
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-LD5-55-UNV-L82765-W2A1-U-3500K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH STANDARD LENS
Light Source: (504) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5420.0 lumens
Efficiency: N/A
Efficacy: 140.8 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

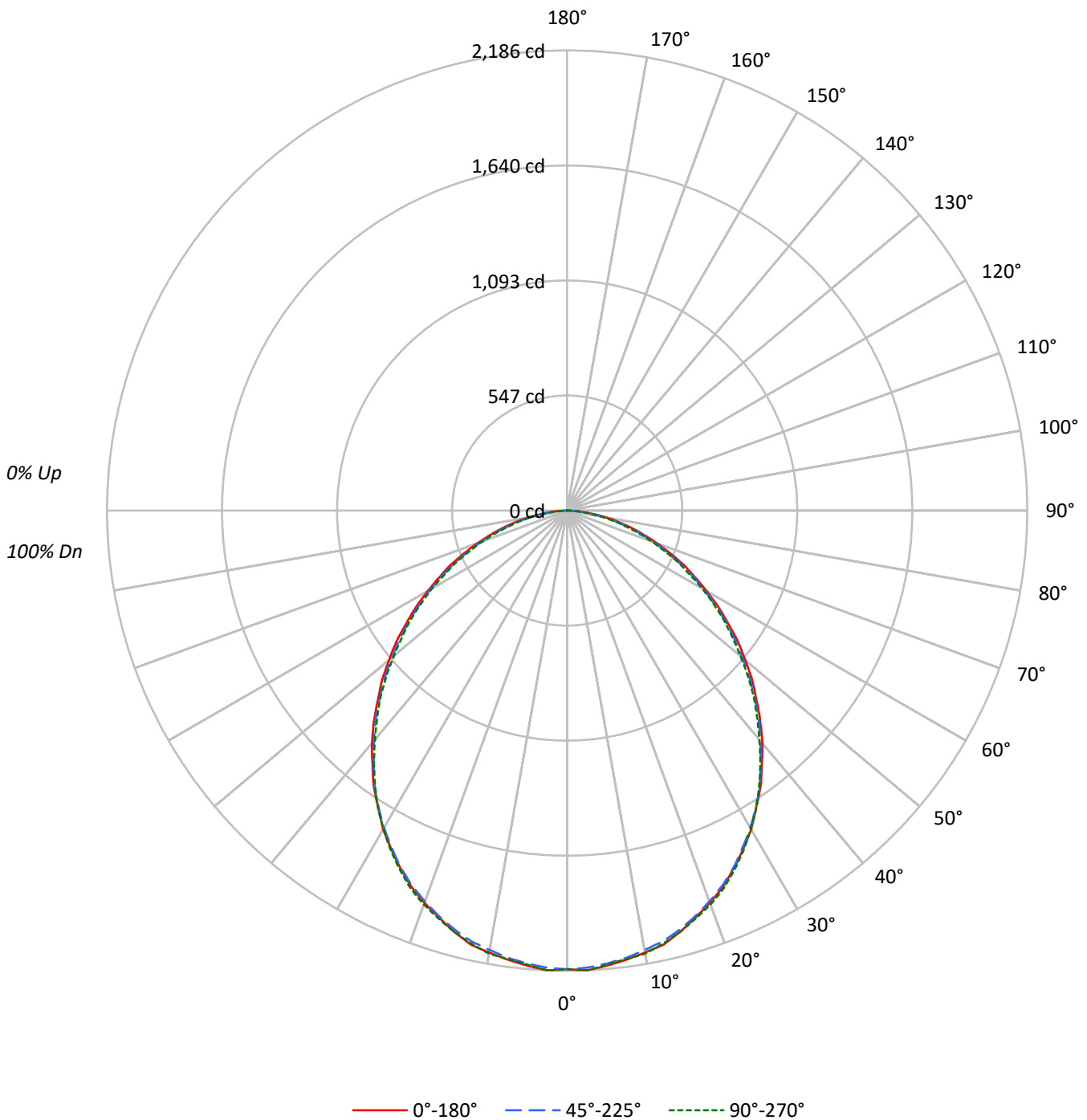
Input Watts (W): 38.502
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2931	2931	2931
5°	2931	2917	2924
10°	2912	2895	2919
15°	2886	2872	2886
20°	2839	2829	2852
25°	2783	2778	2793
30°	2717	2703	2711
35°	2631	2619	2614
40°	2534	2509	2494
45°	2419	2396	2386
50°	2309	2273	2247
55°	2186	2153	2133
60°	2056	2019	1995
65°	1943	1870	1854
70°	1782	1713	1678
75°	1636	1536	1473
80°	1436	1341	1260
85°	1161	1079	919



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	205.6	3.8
10°-20°	582.8	10.8
20°-30°	862.0	15.9
30°-40°	994.9	18.4
40°-50°	971.7	17.9
50°-60°	820.5	15.1
60°-70°	584.4	10.8
70°-80°	316.4	5.8
80°-90°	81.6	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°	1650.4	30.4
0°-40°	2645.2	48.8
0°-60°	4437.4	81.9
0°-90°	5420.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5420.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2179	2179	2179	2179	2179	
5°	2170	2170	2160	2165	2165	206
15°	2072	2063	2062	2070	2072	584
25°	1874	1864	1871	1878	1881	863
35°	1602	1589	1595	1589	1591	1000
45°	1271	1261	1259	1254	1254	983
55°	932	920	918	909	909	836
65°	610	598	588	580	582	602
75°	315	304	296	288	283	333
85°	75	73	70	61	60	88
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2178.7	2178.7	2178.7	2178.7	2178.7
2.5°	2185.7	2176.9	2173.4	2175.2	2185.7
5°	2169.9	2169.9	2159.5	2164.7	2164.7
7.5°	2152.5	2154.2	2143.7	2152.5	2149.0
10°	2131.5	2126.2	2119.2	2133.2	2136.7
12.5°	2112.2	2100.0	2096.5	2105.2	2107.0
15°	2072.0	2063.3	2061.5	2070.3	2072.0
17.5°	2026.6	2028.3	2021.3	2033.6	2031.8
20°	1982.8	1979.4	1975.9	1989.8	1991.6
22.5°	1933.9	1923.4	1926.9	1939.1	1942.6
25°	1874.4	1863.9	1870.9	1877.9	1881.4
27.5°	1811.5	1806.2	1804.5	1813.2	1816.7
30°	1748.5	1739.8	1739.8	1750.3	1745.0
32.5°	1671.6	1664.6	1668.1	1671.6	1673.4
35°	1601.7	1589.4	1594.7	1589.4	1591.2
37.5°	1519.5	1510.7	1509.0	1507.2	1507.2
40°	1442.5	1435.6	1428.6	1428.6	1419.8
42.5°	1358.6	1349.9	1346.4	1341.1	1335.9
45°	1271.2	1260.7	1259.0	1253.7	1253.7
47.5°	1192.5	1176.8	1175.0	1164.5	1164.5
50°	1103.3	1092.8	1085.8	1078.9	1073.6
52.5°	1022.9	1012.4	1001.9	994.9	989.7
55°	932.0	919.7	918.0	909.2	909.2
57.5°	849.8	839.3	832.3	821.8	823.6
60°	764.1	753.6	750.1	741.4	741.4
62.5°	683.7	674.9	669.7	660.9	654.0
65°	610.2	598.0	587.5	580.5	582.3
67.5°	529.8	515.8	510.6	503.6	498.3
70°	452.9	444.1	435.4	426.6	426.6
72.5°	381.2	372.4	367.2	356.7	353.2
75°	314.7	304.2	295.5	288.5	283.3
77.5°	248.3	237.8	232.6	223.8	223.8
80°	185.3	178.4	173.1	169.6	162.6
82.5°	127.6	124.1	118.9	113.7	108.4
85°	75.2	73.4	69.9	61.2	59.5
87.5°	29.7	29.7	26.2	24.5	22.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)