

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: P295909

Luminaire Tested: **24RLN-LD5-55-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295909
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-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: 5239.0 lumens
Efficiency: N/A
Efficacy: 137.7 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

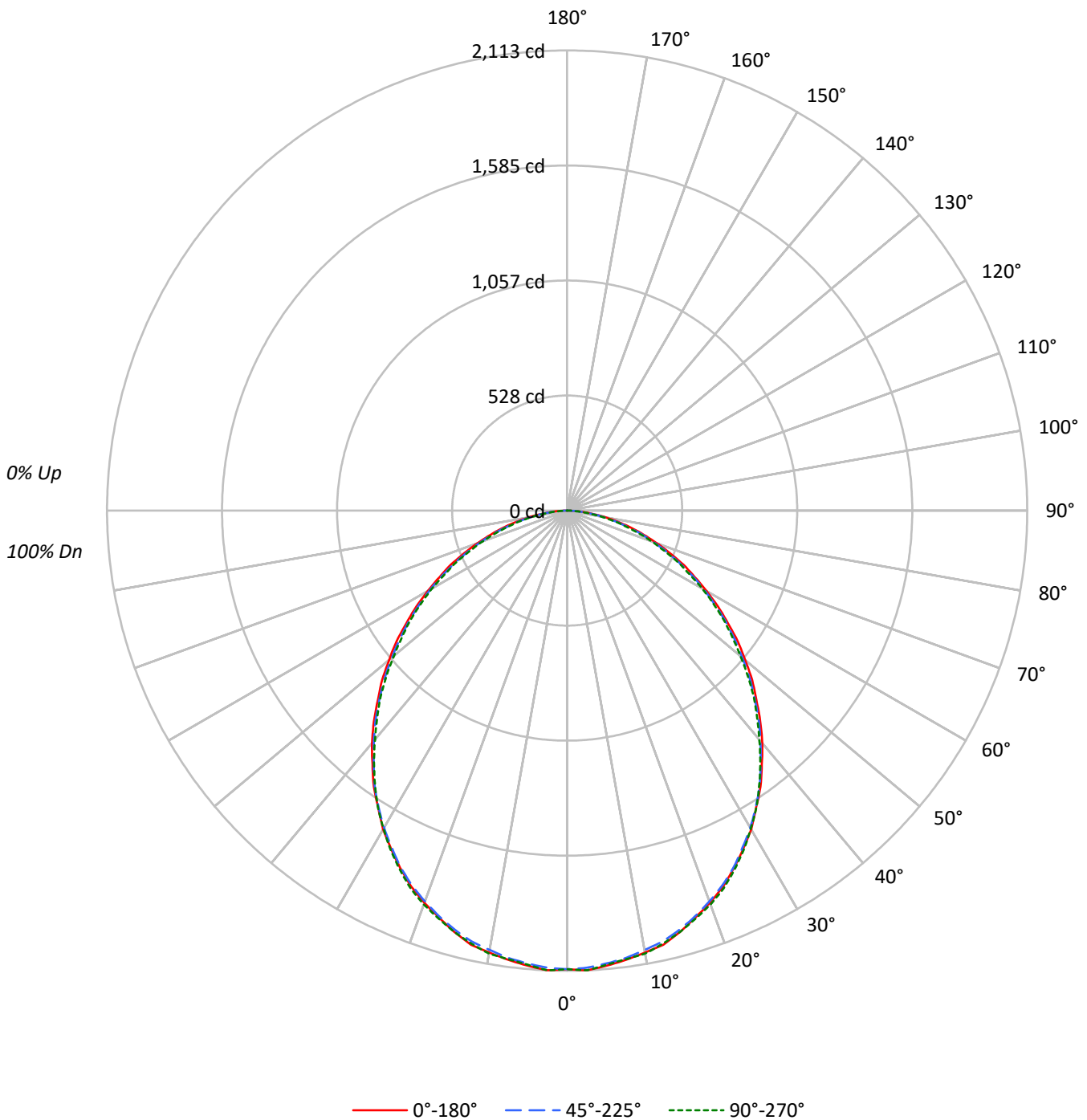
Input Watts (W): 38.037
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2833	2833	2833
5°	2833	2819	2826
10°	2815	2799	2822
15°	2790	2776	2790
20°	2744	2735	2756
25°	2690	2685	2700
30°	2626	2613	2621
35°	2543	2532	2526
40°	2449	2425	2410
45°	2338	2316	2306
50°	2232	2197	2172
55°	2113	2081	2062
60°	1988	1951	1928
65°	1878	1808	1792
70°	1722	1655	1622
75°	1581	1485	1423
80°	1389	1296	1218
85°	1122	1044	888



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	198.7	3.8
10°-20°	563.3	10.8
20°-30°	833.2	15.9
30°-40°	961.6	18.4
40°-50°	939.2	17.9
50°-60°	793.1	15.1
60°-70°	564.9	10.8
70°-80°	305.9	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°	1595.3	30.4
0°-40°	2556.9	48.8
0°-60°	4289.3	81.9
0°-90°	5239.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5239.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2106	2106	2106	2106	2106	
5°	2098	2098	2087	2092	2092	199
15°	2003	1994	1993	2001	2003	564
25°	1812	1802	1808	1815	1819	834
35°	1548	1536	1541	1536	1538	966
45°	1229	1219	1217	1212	1212	950
55°	901	889	887	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°	2105.9	2105.9	2105.9	2105.9	2105.9
2.5°	2112.7	2104.2	2100.9	2102.5	2112.7
5°	2097.5	2097.5	2087.3	2092.4	2092.4
7.5°	2080.6	2082.3	2072.1	2080.6	2077.2
10°	2060.3	2055.2	2048.5	2062.0	2065.4
12.5°	2041.7	2029.9	2026.5	2034.9	2036.6
15°	2002.8	1994.4	1992.7	2001.1	2002.8
17.5°	1958.9	1960.6	1953.8	1965.6	1964.0
20°	1916.6	1913.3	1909.9	1923.4	1925.1
22.5°	1869.3	1859.2	1862.5	1874.4	1877.8
25°	1811.8	1801.7	1808.5	1815.2	1818.6
27.5°	1751.0	1745.9	1744.2	1752.7	1756.1
30°	1690.2	1681.7	1681.7	1691.8	1686.8
32.5°	1615.8	1609.0	1612.4	1615.8	1617.5
35°	1548.2	1536.3	1541.4	1536.3	1538.0
37.5°	1468.7	1460.3	1458.6	1456.9	1456.9
40°	1394.4	1387.6	1380.9	1380.9	1372.4
42.5°	1313.2	1304.8	1301.4	1296.3	1291.3
45°	1228.7	1218.6	1216.9	1211.8	1211.8
47.5°	1152.7	1137.5	1135.8	1125.6	1125.6
50°	1066.5	1056.3	1049.6	1042.8	1037.8
52.5°	988.7	978.6	968.5	961.7	956.6
55°	900.9	889.0	887.3	878.9	878.9
57.5°	821.4	811.3	804.5	794.4	796.1
60°	738.6	728.5	725.1	716.6	716.6
62.5°	660.8	652.4	647.3	638.9	632.1
65°	589.9	578.0	567.9	561.1	562.8
67.5°	512.1	498.6	493.5	486.8	481.7
70°	437.7	429.3	420.8	412.4	412.4
72.5°	368.5	360.0	354.9	344.8	341.4
75°	304.2	294.1	285.6	278.9	273.8
77.5°	240.0	229.9	224.8	216.3	216.3
80°	179.2	172.4	167.3	163.9	157.2
82.5°	123.4	120.0	114.9	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)