

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: P295915

Luminaire Tested: **24RLN-LD5-55-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295915
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-5700K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER WITH STANDARD LENS
Light Source: (504) 80 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5785.0 lumens
Efficiency: N/A
Efficacy: 146.7 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

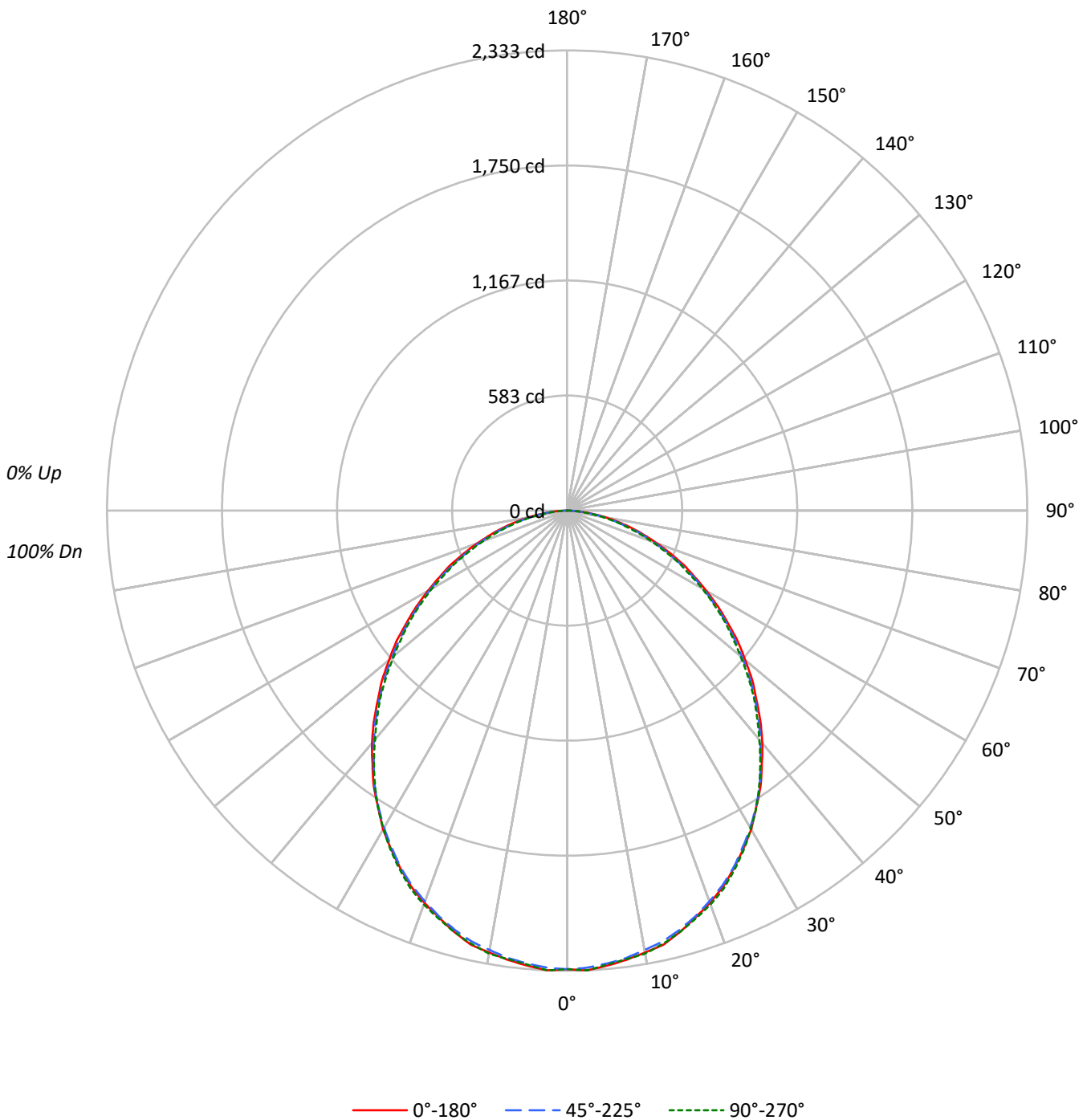
Input Watts (W): 39.432
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3129	3129	3129
5°	3128	3113	3121
10°	3108	3090	3116
15°	3081	3065	3081
20°	3030	3020	3044
25°	2970	2965	2981
30°	2900	2885	2894
35°	2808	2796	2790
40°	2704	2678	2662
45°	2582	2557	2546
50°	2465	2426	2399
55°	2333	2298	2277
60°	2195	2154	2129
65°	2074	1996	1979
70°	1902	1828	1792
75°	1746	1640	1572
80°	1533	1432	1345
85°	1240	1153	980



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	219.4	3.8
10°-20°	622.0	10.8
20°-30°	920.1	15.9
30°-40°	1061.9	18.4
40°-50°	1037.1	17.9
50°-60°	875.8	15.1
60°-70°	623.8	10.8
70°-80°	337.7	5.8
80°-90°	87.1	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°	1761.5	30.4
0°-40°	2823.4	48.8
0°-60°	4736.3	81.9
0°-90°	5785.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5785.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2325	2325	2325	2325	2325	
5°	2316	2316	2305	2310	2310	220
15°	2212	2202	2200	2210	2212	623
25°	2001	1990	1997	2004	2008	921
35°	1710	1696	1702	1696	1698	1067
45°	1357	1346	1344	1338	1338	1049
55°	995	982	980	970	970	892
65°	651	638	627	620	622	642
75°	336	325	315	308	302	356
85°	80	78	75	65	64	94
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2325.4	2325.4	2325.4	2325.4	2325.4
2.5°	2332.9	2323.5	2319.8	2321.7	2332.9
5°	2316.1	2316.1	2304.9	2310.5	2310.5
7.5°	2297.4	2299.3	2288.1	2297.4	2293.7
10°	2275.0	2269.4	2262.0	2276.9	2280.6
12.5°	2254.5	2241.4	2237.7	2247.0	2248.9
15°	2211.6	2202.2	2200.4	2209.7	2211.6
17.5°	2163.0	2164.9	2157.4	2170.5	2168.6
20°	2116.4	2112.6	2108.9	2123.8	2125.7
22.5°	2064.1	2052.9	2056.7	2069.7	2073.5
25°	2000.7	1989.5	1996.9	2004.4	2008.1
27.5°	1933.5	1927.9	1926.0	1935.3	1939.1
30°	1866.3	1857.0	1857.0	1868.2	1862.6
32.5°	1784.2	1776.7	1780.4	1784.2	1786.0
35°	1709.5	1696.5	1702.1	1696.5	1698.3
37.5°	1621.8	1612.5	1610.6	1608.7	1608.7
40°	1539.7	1532.2	1524.8	1524.8	1515.4
42.5°	1450.1	1440.8	1437.0	1431.4	1425.9
45°	1356.8	1345.6	1343.7	1338.1	1338.1
47.5°	1272.8	1256.0	1254.2	1243.0	1243.0
50°	1177.6	1166.4	1159.0	1151.5	1145.9
52.5°	1091.8	1080.6	1069.4	1061.9	1056.3
55°	994.7	981.7	979.8	970.5	970.5
57.5°	907.0	895.8	888.4	877.2	879.0
60°	815.6	804.4	800.6	791.3	791.3
62.5°	729.7	720.4	714.8	705.5	698.0
65°	651.3	638.3	627.1	619.6	621.5
67.5°	565.5	550.6	545.0	537.5	531.9
70°	483.4	474.0	464.7	455.4	455.4
72.5°	406.9	397.5	391.9	380.7	377.0
75°	335.9	324.7	315.4	307.9	302.3
77.5°	265.0	253.8	248.2	238.9	238.9
80°	197.8	190.4	184.8	181.0	173.6
82.5°	136.2	132.5	126.9	121.3	115.7
85°	80.3	78.4	74.7	65.3	63.5
87.5°	31.7	31.7	28.0	26.1	24.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)