

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: P296083

Luminaire Tested: **24RLN-LD5-74-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296083
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-LD5-74-UNV-L92765-W2A1-U-6500K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER WITH STANDARD LENS
Light Source: (504) 90 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7055.0 lumens
Efficiency: N/A
Efficacy: 122.4 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

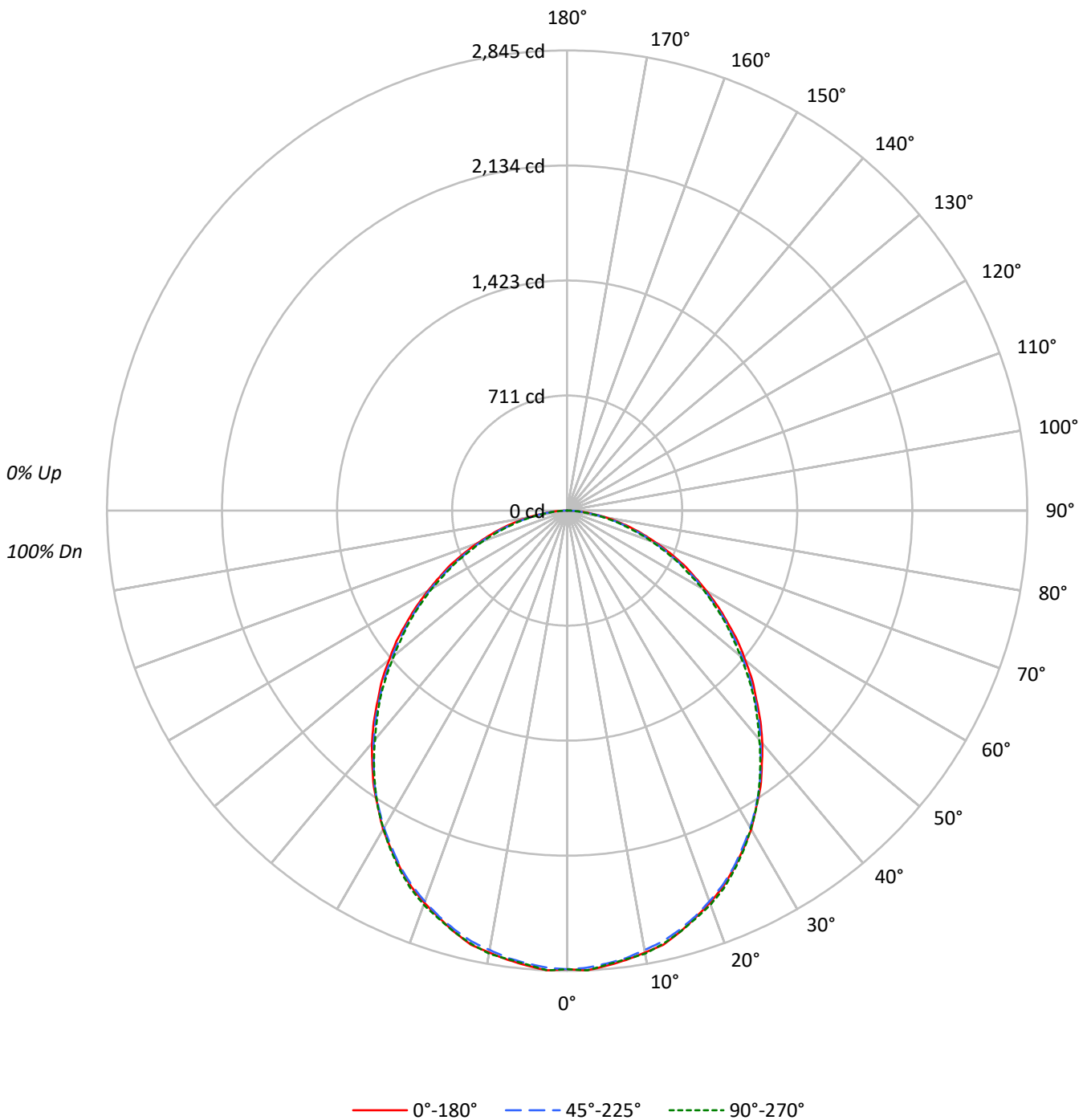
Input Watts (W): 57.66
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3816	3816	3816
5°	3815	3796	3806
10°	3791	3769	3800
15°	3757	3738	3757
20°	3696	3683	3712
25°	3622	3615	3636
30°	3536	3518	3529
35°	3424	3409	3402
40°	3298	3266	3246
45°	3149	3118	3105
50°	3006	2959	2925
55°	2846	2803	2776
60°	2676	2627	2597
65°	2529	2435	2413
70°	2319	2229	2185
75°	2130	1999	1917
80°	1870	1746	1640
85°	1511	1405	1195



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	267.6	3.8
10°-20°	758.6	10.8
20°-30°	1122.1	15.9
30°-40°	1295.0	18.4
40°-50°	1264.8	17.9
50°-60°	1068.0	15.1
60°-70°	760.7	10.8
70°-80°	411.9	5.8
80°-90°	106.3	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°	2148.2	30.4
0°-40°	3443.2	48.8
0°-60°	5776.1	81.9
0°-90°	7055.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7055.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2836	2836	2836	2836	2836	
5°	2824	2824	2811	2818	2818	268
15°	2697	2686	2683	2695	2697	760
25°	2440	2426	2435	2444	2449	1123
35°	2085	2069	2076	2069	2071	1301
45°	1655	1641	1639	1632	1632	1279
55°	1213	1197	1195	1184	1184	1088
65°	794	778	765	756	758	783
75°	410	396	385	376	369	434
85°	98	96	91	80	77	115
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2835.9	2835.9	2835.9	2835.9	2835.9
2.5°	2845.0	2833.6	2829.1	2831.4	2845.0
5°	2824.5	2824.5	2810.9	2817.7	2817.7
7.5°	2801.8	2804.0	2790.4	2801.8	2797.2
10°	2774.5	2767.6	2758.5	2776.7	2781.3
12.5°	2749.4	2733.5	2728.9	2740.3	2742.6
15°	2697.1	2685.7	2683.4	2694.8	2697.1
17.5°	2637.9	2640.2	2631.1	2647.0	2644.7
20°	2581.0	2576.4	2571.9	2590.1	2592.4
22.5°	2517.3	2503.6	2508.2	2524.1	2528.6
25°	2439.9	2426.2	2435.3	2444.4	2449.0
27.5°	2357.9	2351.1	2348.8	2360.2	2364.8
30°	2276.0	2264.6	2264.6	2278.3	2271.5
32.5°	2175.9	2166.8	2171.3	2175.9	2178.1
35°	2084.8	2068.9	2075.7	2068.9	2071.2
37.5°	1977.9	1966.5	1964.2	1961.9	1961.9
40°	1877.7	1868.6	1859.5	1859.5	1848.1
42.5°	1768.5	1757.1	1752.5	1745.7	1738.9
45°	1654.7	1641.0	1638.7	1631.9	1631.9
47.5°	1552.2	1531.8	1529.5	1515.8	1515.8
50°	1436.2	1422.5	1413.4	1404.3	1397.5
52.5°	1331.5	1317.8	1304.2	1295.1	1288.2
55°	1213.1	1197.2	1194.9	1183.5	1183.5
57.5°	1106.1	1092.5	1083.4	1069.7	1072.0
60°	994.6	981.0	976.4	965.0	965.0
62.5°	889.9	878.5	871.7	860.3	851.2
65°	794.3	778.4	764.7	755.6	757.9
67.5°	689.6	671.4	664.6	655.5	648.7
70°	589.5	578.1	566.7	555.3	555.3
72.5°	496.2	484.8	478.0	464.3	459.8
75°	409.7	396.0	384.6	375.5	368.7
77.5°	323.2	309.5	302.7	291.3	291.3
80°	241.3	232.2	225.3	220.8	211.7
82.5°	166.1	161.6	154.8	147.9	141.1
85°	97.9	95.6	91.0	79.7	77.4
87.5°	38.7	38.7	34.1	31.9	29.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)