

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: P295938

Luminaire Tested: **24RLN-LD5-74-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P295938  
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-L82765-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: 7421.0 lumens  
Efficiency: N/A  
Efficacy: 133.2 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

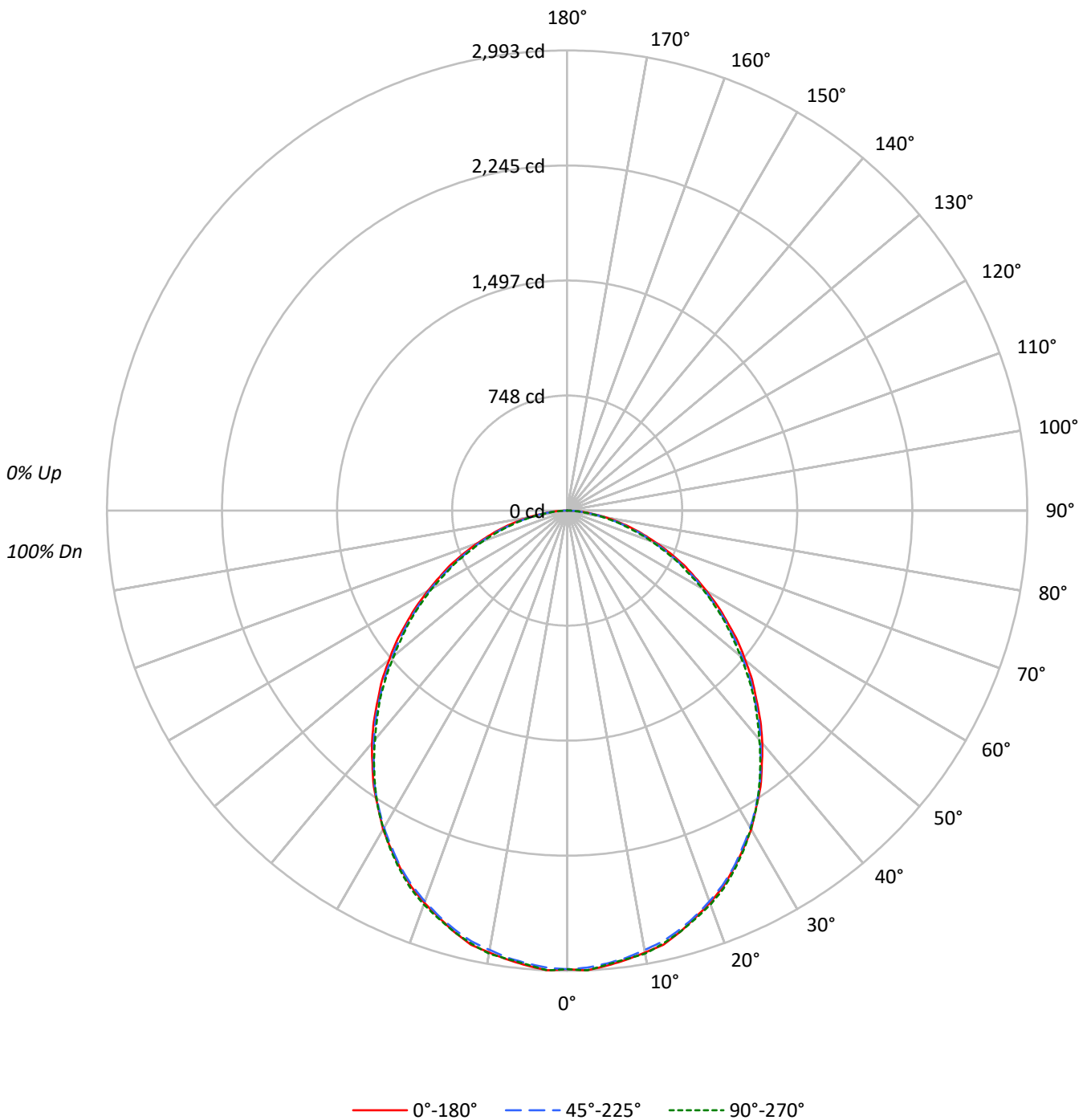
Input Watts (W): 55.707  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	4014	4014	4014
5°	4013	3993	4003
10°	3987	3964	3997
15°	3952	3932	3952
20°	3887	3874	3904
25°	3810	3803	3824
30°	3720	3701	3712
35°	3602	3586	3578
40°	3469	3436	3414
45°	3312	3280	3266
50°	3162	3112	3077
55°	2993	2948	2920
60°	2815	2764	2732
65°	2660	2561	2538
70°	2439	2345	2298
75°	2240	2103	2016
80°	1967	1836	1725
85°	1589	1479	1257



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	281.5	3.8
10°-20°	797.9	10.8
20°-30°	1180.3	15.9
30°-40°	1362.2	18.4
40°-50°	1330.4	17.9
50°-60°	1123.5	15.1
60°-70°	800.2	10.8
70°-80°	433.3	5.8
80°-90°	111.8	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°	2259.7	30.4
0°-40°	3621.8	48.8
0°-60°	6075.7	81.9
0°-90°	7421.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7421.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2983	2983	2983	2983	2983	
5°	2971	2971	2957	2964	2964	282
15°	2837	2825	2823	2835	2837	799
25°	2566	2552	2562	2571	2576	1182
35°	2193	2176	2183	2176	2179	1369
45°	1740	1726	1724	1717	1717	1346
55°	1276	1259	1257	1245	1245	1144
65°	836	819	804	795	797	824
75°	431	417	405	395	388	456
85°	103	101	96	84	81	121
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2983.0	2983.0	2983.0	2983.0	2983.0
2.5°	2992.6	2980.6	2975.8	2978.2	2992.6
5°	2971.1	2971.1	2956.7	2963.9	2963.9
7.5°	2947.1	2949.5	2935.1	2947.1	2942.3
10°	2918.4	2911.2	2901.6	2920.8	2925.6
12.5°	2892.1	2875.3	2870.5	2882.5	2884.9
15°	2837.0	2825.0	2822.6	2834.6	2837.0
17.5°	2774.7	2777.1	2767.6	2784.3	2781.9
20°	2714.9	2710.1	2705.3	2724.5	2726.9
22.5°	2647.9	2633.5	2638.3	2655.0	2659.8
25°	2566.5	2552.1	2561.7	2571.2	2576.0
27.5°	2480.3	2473.1	2470.7	2482.7	2487.5
30°	2394.1	2382.1	2382.1	2396.5	2389.3
32.5°	2288.7	2279.2	2284.0	2288.7	2291.1
35°	2193.0	2176.2	2183.4	2176.2	2178.6
37.5°	2080.5	2068.5	2066.1	2063.7	2063.7
40°	1975.1	1965.5	1956.0	1956.0	1944.0
42.5°	1860.2	1848.2	1843.4	1836.3	1829.1
45°	1740.5	1726.1	1723.7	1716.6	1716.6
47.5°	1632.8	1611.2	1608.8	1594.5	1594.5
50°	1510.7	1496.3	1486.7	1477.2	1470.0
52.5°	1400.5	1386.2	1371.8	1362.2	1355.1
55°	1276.0	1259.3	1256.9	1244.9	1244.9
57.5°	1163.5	1149.2	1139.6	1125.2	1127.6
60°	1046.2	1031.9	1027.1	1015.1	1015.1
62.5°	936.1	924.1	916.9	905.0	895.4
65°	835.5	818.8	804.4	794.8	797.2
67.5°	725.4	706.3	699.1	689.5	682.3
70°	620.1	608.1	596.1	584.2	584.2
72.5°	521.9	509.9	502.8	488.4	483.6
75°	430.9	416.6	404.6	395.0	387.8
77.5°	340.0	325.6	318.4	306.4	306.4
80°	253.8	244.2	237.0	232.2	222.6
82.5°	174.8	170.0	162.8	155.6	148.4
85°	102.9	100.6	95.8	83.8	81.4
87.5°	40.7	40.7	35.9	33.5	31.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)