

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: P296080

Luminaire Tested: **24RLN-LD5-74-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P296080  
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-5000K  
Description: RLN LED 2x4 TUNABLE WHITE TROFFER WITH STANDARD LENS  
Light Source: (504) 90 CRI LEDS TUNED TO 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6872.0 lumens  
Efficiency: N/A  
Efficacy: 121.9 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

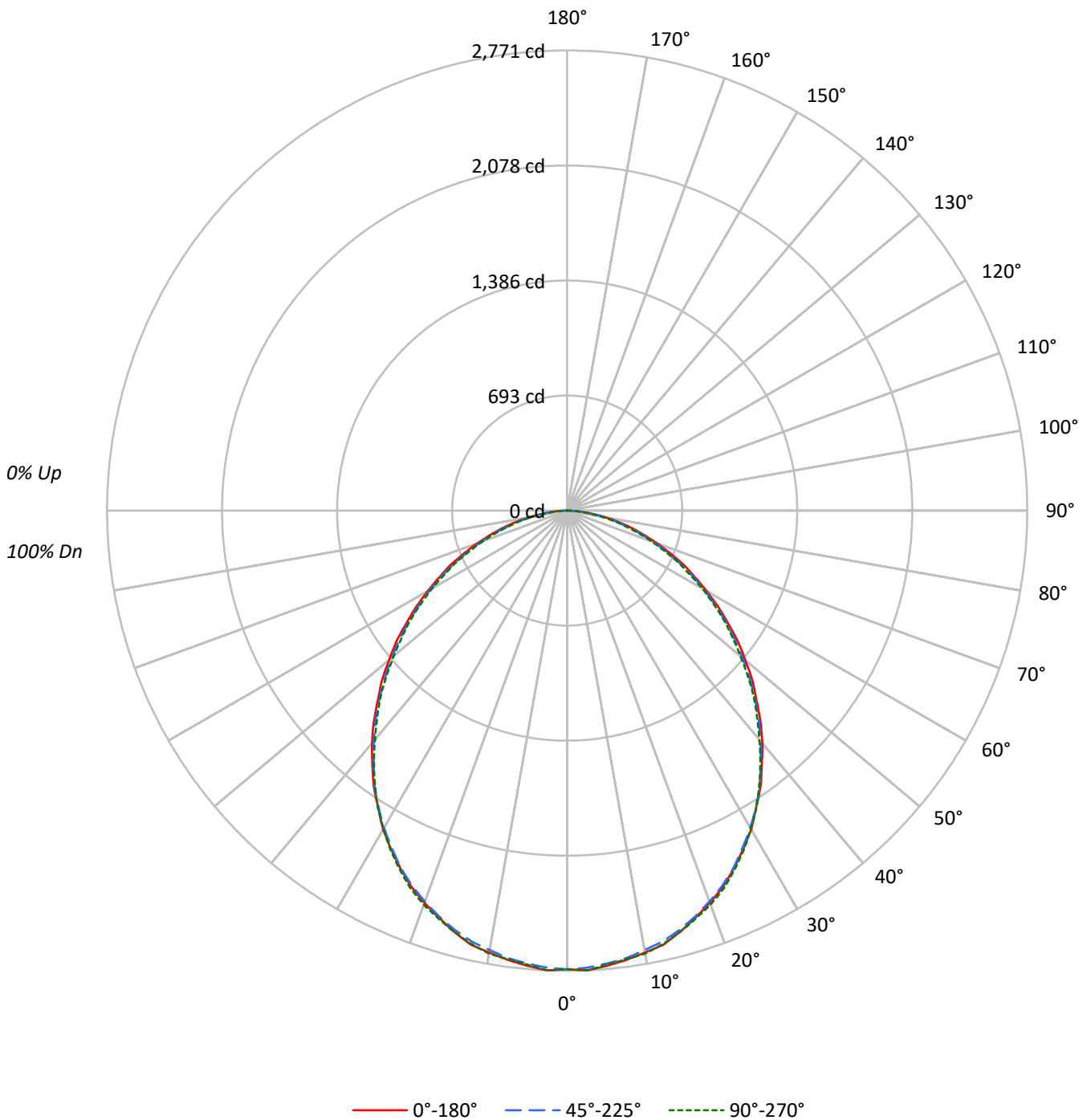
Input Watts (W): 56.358  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	3717	3717	3717
5°	3716	3698	3707
10°	3692	3671	3701
15°	3659	3641	3659
20°	3600	3587	3616
25°	3528	3522	3541
30°	3444	3427	3437
35°	3336	3321	3314
40°	3212	3181	3162
45°	3067	3037	3025
50°	2928	2882	2849
55°	2772	2730	2704
60°	2607	2559	2530
65°	2463	2372	2351
70°	2259	2172	2128
75°	2075	1948	1867
80°	1821	1701	1598
85°	1471	1369	1164



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	260.6	3.8
10°-20°	738.9	10.8
20°-30°	1093.0	15.9
30°-40°	1261.4	18.4
40°-50°	1232.0	17.9
50°-60°	1040.3	15.1
60°-70°	741.0	10.8
70°-80°	401.2	5.8
80°-90°	103.5	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°	2092.5	30.4
0°-40°	3353.9	48.8
0°-60°	5626.2	81.9
0°-90°	6872.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6872.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2762	2762	2762	2762	2762	
5°	2751	2751	2738	2745	2745	261
15°	2627	2616	2614	2625	2627	740
25°	2377	2363	2372	2381	2386	1094
35°	2031	2015	2022	2015	2017	1267
45°	1612	1598	1596	1590	1590	1246
55°	1182	1166	1164	1153	1153	1059
65°	774	758	745	736	738	763
75°	399	386	375	366	359	422
85°	95	93	89	78	75	112
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2762.3	2762.3	2762.3	2762.3	2762.3
2.5°	2771.2	2760.1	2755.7	2757.9	2771.2
5°	2751.3	2751.3	2738.0	2744.6	2744.6
7.5°	2729.1	2731.3	2718.0	2729.1	2724.7
10°	2702.5	2695.8	2687.0	2704.7	2709.1
12.5°	2678.1	2662.6	2658.2	2669.2	2671.5
15°	2627.1	2616.0	2613.8	2624.9	2627.1
17.5°	2569.5	2571.7	2562.8	2578.3	2576.1
20°	2514.0	2509.6	2505.2	2522.9	2525.1
22.5°	2452.0	2438.7	2443.1	2458.6	2463.1
25°	2376.6	2363.3	2372.2	2381.0	2385.5
27.5°	2296.8	2290.1	2287.9	2299.0	2303.4
30°	2217.0	2205.9	2205.9	2219.2	2212.5
32.5°	2119.4	2110.6	2115.0	2119.4	2121.6
35°	2030.7	2015.2	2021.9	2015.2	2017.4
37.5°	1926.5	1915.5	1913.2	1911.0	1911.0
40°	1829.0	1820.1	1811.3	1811.3	1800.2
42.5°	1722.6	1711.5	1707.1	1700.4	1693.8
45°	1611.7	1598.4	1596.2	1589.6	1589.6
47.5°	1512.0	1492.0	1489.8	1476.5	1476.5
50°	1398.9	1385.6	1376.7	1367.9	1361.2
52.5°	1296.9	1283.6	1270.3	1261.5	1254.8
55°	1181.6	1166.1	1163.9	1152.8	1152.8
57.5°	1077.4	1064.1	1055.3	1042.0	1044.2
60°	968.8	955.5	951.1	940.0	940.0
62.5°	866.8	855.8	849.1	838.0	829.1
65°	773.7	758.2	744.9	736.0	738.3
67.5°	671.7	654.0	647.4	638.5	631.8
70°	574.2	563.1	552.0	540.9	540.9
72.5°	483.3	472.2	465.6	452.3	447.8
75°	399.1	385.8	374.7	365.8	359.1
77.5°	314.8	301.5	294.9	283.8	283.8
80°	235.0	226.1	219.5	215.0	206.2
82.5°	161.8	157.4	150.8	144.1	137.5
85°	95.3	93.1	88.7	77.6	75.4
87.5°	37.7	37.7	33.3	31.0	28.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)