

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: P296079

Luminaire Tested: **24RLN-LD5-74-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P296079  
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-4500K  
Description: RLN LED 2x4 TUNABLE WHITE TROFFER WITH STANDARD LENS  
Light Source: (504) 90 CRI LEDS TUNED TO 4500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6736.0 lumens  
Efficiency: N/A  
Efficacy: 120.1 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

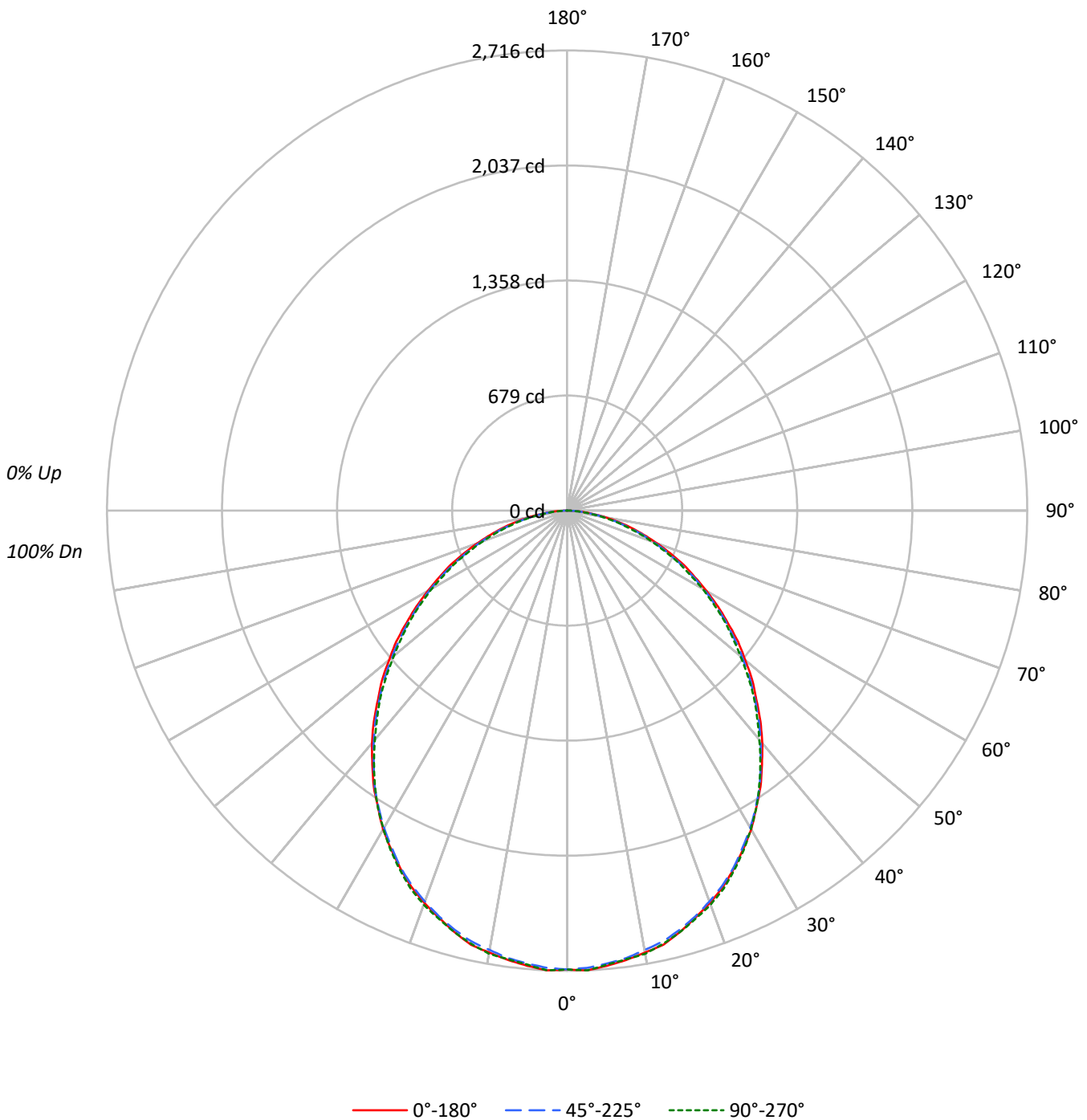
Input Watts (W): 56.079  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	3643	3643	3643
5°	3642	3625	3634
10°	3619	3598	3628
15°	3587	3569	3587
20°	3528	3516	3544
25°	3458	3452	3471
30°	3376	3359	3370
35°	3270	3255	3248
40°	3149	3118	3099
45°	3006	2977	2965
50°	2870	2825	2793
55°	2717	2676	2651
60°	2555	2509	2479
65°	2415	2325	2304
70°	2214	2129	2086
75°	2034	1909	1830
80°	1784	1667	1566
85°	1442	1342	1141



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	255.5	3.8
10°-20°	724.3	10.8
20°-30°	1071.3	15.9
30°-40°	1236.4	18.4
40°-50°	1207.6	17.9
50°-60°	1019.8	15.1
60°-70°	726.3	10.8
70°-80°	393.3	5.8
80°-90°	101.5	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°	2051.1	30.4
0°-40°	3287.5	48.8
0°-60°	5514.9	81.9
0°-90°	6736.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6736.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2708	2708	2708	2708	2708	
5°	2697	2697	2684	2690	2690	256
15°	2575	2564	2562	2573	2575	725
25°	2330	2316	2325	2334	2338	1072
35°	1991	1975	1982	1975	1978	1242
45°	1580	1567	1565	1558	1558	1222
55°	1158	1143	1141	1130	1130	1038
65°	758	743	730	722	724	748
75°	391	378	367	359	352	414
85°	93	91	87	76	74	110
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2707.7	2707.7	2707.7	2707.7	2707.7
2.5°	2716.4	2705.5	2701.2	2703.3	2716.4
5°	2696.8	2696.8	2683.8	2690.3	2690.3
7.5°	2675.1	2677.3	2664.2	2675.1	2670.7
10°	2649.0	2642.5	2633.8	2651.2	2655.5
12.5°	2625.1	2609.9	2605.5	2616.4	2618.6
15°	2575.1	2564.3	2562.1	2572.9	2575.1
17.5°	2518.6	2520.8	2512.1	2527.3	2525.1
20°	2464.3	2459.9	2455.6	2473.0	2475.2
22.5°	2403.4	2390.4	2394.8	2410.0	2414.3
25°	2329.6	2316.5	2325.2	2333.9	2338.3
27.5°	2251.3	2244.8	2242.6	2253.5	2257.8
30°	2173.1	2162.2	2162.2	2175.3	2168.8
32.5°	2077.5	2068.8	2073.1	2077.5	2079.7
35°	1990.6	1975.3	1981.9	1975.3	1977.5
37.5°	1888.4	1877.6	1875.4	1873.2	1873.2
40°	1792.8	1784.1	1775.4	1775.4	1764.6
42.5°	1688.5	1677.6	1673.3	1666.8	1660.2
45°	1579.8	1566.8	1564.6	1558.1	1558.1
47.5°	1482.1	1462.5	1460.3	1447.3	1447.3
50°	1371.2	1358.2	1349.5	1340.8	1334.3
52.5°	1271.3	1258.2	1245.2	1236.5	1230.0
55°	1158.3	1143.0	1140.9	1130.0	1130.0
57.5°	1056.1	1043.1	1034.4	1021.4	1023.5
60°	949.6	936.6	932.3	921.4	921.4
62.5°	849.7	838.8	832.3	821.4	812.7
65°	758.4	743.2	730.2	721.5	723.6
67.5°	658.4	641.1	634.5	625.9	619.3
70°	562.8	552.0	541.1	530.2	530.2
72.5°	473.7	462.9	456.4	443.3	439.0
75°	391.2	378.1	367.3	358.6	352.0
77.5°	308.6	295.5	289.0	278.2	278.2
80°	230.3	221.7	215.1	210.8	202.1
82.5°	158.6	154.3	147.8	141.3	134.7
85°	93.4	91.3	86.9	76.1	73.9
87.5°	36.9	36.9	32.6	30.4	28.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)