

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: P295945

Luminaire Tested: **24RLN-LD5-80-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P295945  
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-LD5-80-UNV-L82765-W2A1-U-3000K  
Description: RLN LED 2x4 TUNABLE WHITE TROFFER  
WITH STANDARD LENS  
Light Source: (504) 80 CRI LEDS TUNED TO 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7612.0 lumens  
Efficiency: N/A  
Efficacy: 126.3 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

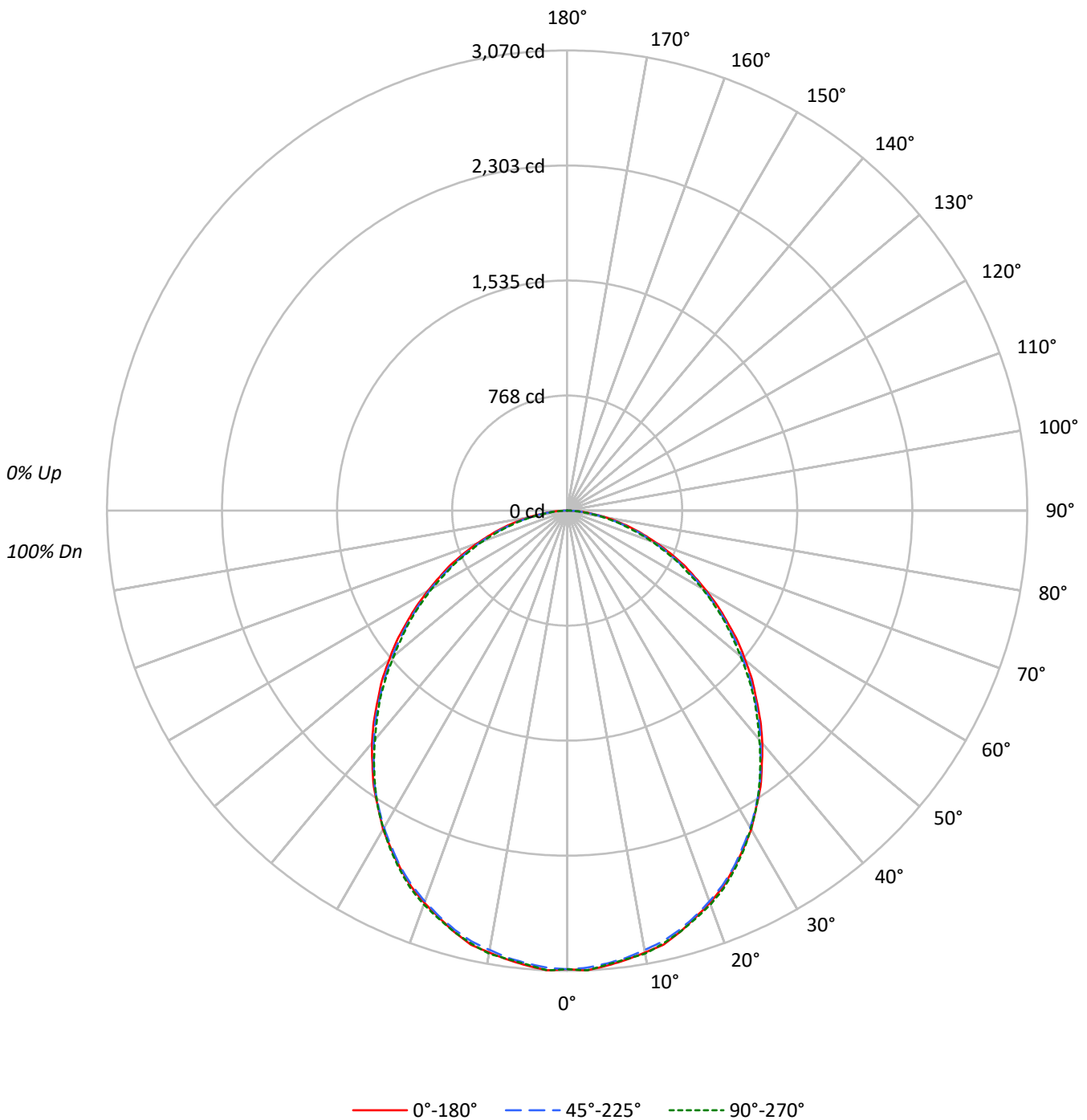
Input Watts (W): 60.264  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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					100			
1	109	105	101	97	107	102	99	95	98	95	92	94	92	90	91	89	87	85					85			
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	72					72			
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	61					61			
4	84	72	64	57	82	71	63	57	68	62	56	66	60	55	64	59	55	52					52			
5	77	65	56	50	75	64	55	49	62	54	49	60	53	48	58	52	48	46					46			
6	72	59	50	44	70	58	49	43	56	48	43	54	48	43	53	47	42	40					40			
7	66	53	45	39	65	52	44	39	51	44	38	49	43	38	48	42	38	36					36			
8	62	49	40	35	60	48	40	35	47	39	34	45	39	34	44	38	34	32					32			
9	58	45	37	31	57	44	36	31	43	36	31	42	36	31	41	35	31	29					29			
10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28	26					26			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	4117	4117	4117
5°	4116	4096	4106
10°	4090	4066	4100
15°	4053	4033	4053
20°	3987	3973	4005
25°	3908	3901	3923
30°	3815	3796	3808
35°	3695	3679	3671
40°	3558	3524	3502
45°	3397	3364	3350
50°	3243	3192	3156
55°	3070	3024	2996
60°	2888	2835	2802
65°	2728	2627	2603
70°	2502	2406	2357
75°	2298	2157	2068
80°	2017	1884	1770
85°	1630	1516	1289



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	288.7	3.8
10°-20°	818.5	10.8
20°-30°	1210.7	15.9
30°-40°	1397.2	18.4
40°-50°	1364.7	17.9
50°-60°	1152.4	15.1
60°-70°	820.8	10.8
70°-80°	444.4	5.8
80°-90°	114.7	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°	2317.8	30.4
0°-40°	3715.1	48.8
0°-60°	6232.1	81.9
0°-90°	7612.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7612.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3060	3060	3060	3060	3060	
5°	3048	3048	3033	3040	3040	289
15°	2910	2898	2895	2908	2910	820
25°	2632	2618	2628	2637	2642	1212
35°	2249	2232	2240	2232	2235	1404
45°	1785	1771	1768	1761	1761	1380
55°	1309	1292	1289	1277	1277	1173
65°	857	840	825	815	818	845
75°	442	427	415	405	398	468
85°	106	103	98	86	84	124
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3059.8	3059.8	3059.8	3059.8	3059.8
2.5°	3069.6	3057.4	3052.4	3054.9	3069.6
5°	3047.5	3047.5	3032.8	3040.2	3040.2
7.5°	3023.0	3025.4	3010.7	3023.0	3018.1
10°	2993.5	2986.1	2976.3	2996.0	3000.9
12.5°	2966.5	2949.3	2944.4	2956.7	2959.1
15°	2910.0	2897.7	2895.3	2907.6	2910.0
17.5°	2846.2	2848.6	2838.8	2856.0	2853.5
20°	2784.8	2779.9	2774.9	2794.6	2797.0
22.5°	2716.0	2701.3	2706.2	2723.4	2728.3
25°	2632.5	2617.8	2627.6	2637.4	2642.3
27.5°	2544.1	2536.7	2534.3	2546.6	2551.5
30°	2455.7	2443.4	2443.4	2458.2	2450.8
32.5°	2347.7	2337.8	2342.7	2347.7	2350.1
35°	2249.4	2232.2	2239.6	2232.2	2234.7
37.5°	2134.0	2121.7	2119.3	2116.8	2116.8
40°	2026.0	2016.1	2006.3	2006.3	1994.0
42.5°	1908.1	1895.8	1890.9	1883.5	1876.2
45°	1785.3	1770.6	1768.1	1760.7	1760.7
47.5°	1674.8	1652.7	1650.2	1635.5	1635.5
50°	1549.5	1534.8	1525.0	1515.2	1507.8
52.5°	1436.6	1421.9	1407.1	1397.3	1389.9
55°	1308.9	1291.7	1289.2	1277.0	1277.0
57.5°	1193.5	1178.7	1168.9	1154.2	1156.6
60°	1073.1	1058.4	1053.5	1041.2	1041.2
62.5°	960.2	947.9	940.5	928.3	918.4
65°	857.0	839.9	825.1	815.3	817.7
67.5°	744.1	724.4	717.1	707.2	699.9
70°	636.0	623.7	611.5	599.2	599.2
72.5°	535.3	523.1	515.7	501.0	496.1
75°	442.0	427.3	415.0	405.2	397.8
77.5°	348.7	334.0	326.6	314.3	314.3
80°	260.3	250.5	243.1	238.2	228.4
82.5°	179.3	174.4	167.0	159.6	152.3
85°	105.6	103.1	98.2	85.9	83.5
87.5°	41.7	41.7	36.8	34.4	31.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)