

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: P296084

Luminaire Tested: **24RLN-LD5-80-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P296084  
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-L92765-W2A1-U-2700K  
Description: RLN LED 2x4 TUNABLE WHITE TROFFER  
WITH STANDARD LENS  
Light Source: (504) 90 CRI LEDS TUNED TO 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6318.0 lumens  
Efficiency: N/A  
Efficacy: 104.4 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

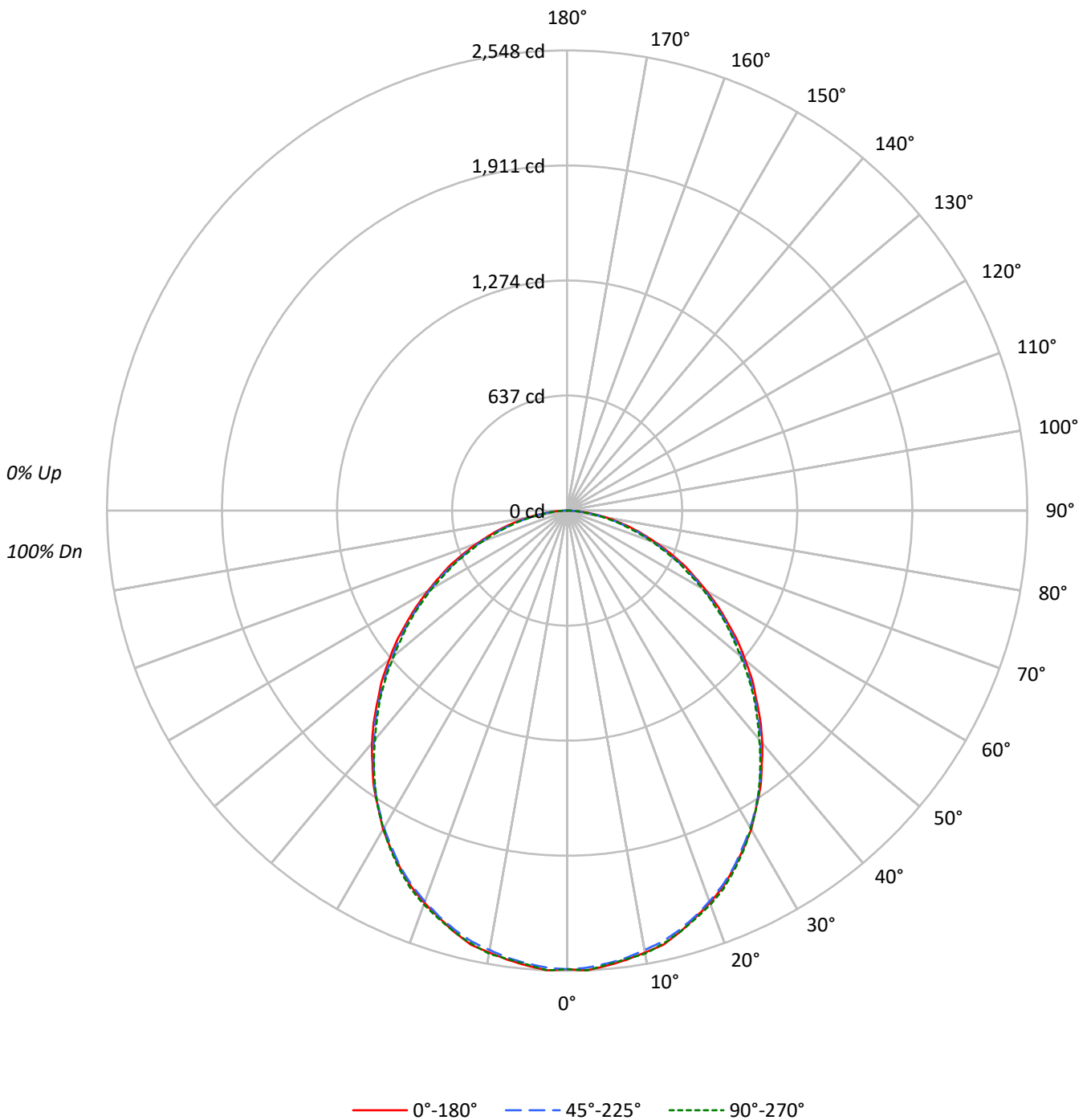
Input Watts (W): 60.543  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	3417	3417	3417
5°	3416	3400	3408
10°	3395	3375	3403
15°	3364	3347	3364
20°	3310	3298	3324
25°	3244	3238	3256
30°	3167	3151	3160
35°	3067	3053	3047
40°	2954	2925	2907
45°	2820	2792	2781
50°	2692	2650	2620
55°	2548	2510	2486
60°	2397	2353	2326
65°	2265	2181	2161
70°	2077	1996	1956
75°	1907	1791	1717
80°	1674	1564	1469
85°	1352	1258	1070



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	239.6	3.8
10°-20°	679.3	10.8
20°-30°	1004.9	15.9
30°-40°	1159.7	18.4
40°-50°	1132.7	17.9
50°-60°	956.5	15.1
60°-70°	681.3	10.8
70°-80°	368.9	5.8
80°-90°	95.2	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°	1923.8	30.4
0°-40°	3083.5	48.8
0°-60°	5172.7	81.9
0°-90°	6318.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6318.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2540	2540	2540	2540	2540	
5°	2530	2530	2517	2523	2523	240
15°	2415	2405	2403	2413	2415	680
25°	2185	2173	2181	2189	2193	1006
35°	1867	1853	1859	1853	1855	1165
45°	1482	1470	1468	1461	1461	1146
55°	1086	1072	1070	1060	1060	974
65°	711	697	685	677	679	701
75°	367	355	344	336	330	388
85°	88	86	82	71	69	103
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2539.7	2539.7	2539.7	2539.7	2539.7
2.5°	2547.8	2537.6	2533.5	2535.6	2547.8
5°	2529.5	2529.5	2517.2	2523.4	2523.4
7.5°	2509.1	2511.1	2498.9	2509.1	2505.0
10°	2484.6	2478.5	2470.4	2486.7	2490.7
12.5°	2462.2	2447.9	2443.9	2454.0	2456.1
15°	2415.3	2405.1	2403.1	2413.3	2415.3
17.5°	2362.3	2364.4	2356.2	2370.5	2368.4
20°	2311.4	2307.3	2303.2	2319.5	2321.6
22.5°	2254.3	2242.1	2246.1	2260.4	2264.5
25°	2185.0	2172.8	2180.9	2189.1	2193.2
27.5°	2111.6	2105.5	2103.5	2113.7	2117.7
30°	2038.2	2028.1	2028.1	2040.3	2034.2
32.5°	1948.6	1940.4	1944.5	1948.6	1950.6
35°	1867.0	1852.8	1858.9	1852.8	1854.8
37.5°	1771.2	1761.0	1759.0	1757.0	1757.0
40°	1681.6	1673.4	1665.2	1665.2	1655.1
42.5°	1583.7	1573.5	1569.5	1563.3	1557.2
45°	1481.8	1469.6	1467.5	1461.4	1461.4
47.5°	1390.1	1371.7	1369.7	1357.5	1357.5
50°	1286.1	1273.9	1265.8	1257.6	1251.5
52.5°	1192.4	1180.1	1167.9	1159.8	1153.6
55°	1086.4	1072.1	1070.1	1059.9	1059.9
57.5°	990.6	978.4	970.2	958.0	960.0
60°	890.7	878.5	874.4	864.2	864.2
62.5°	797.0	786.8	780.6	770.5	762.3
65°	711.3	697.1	684.9	676.7	678.7
67.5°	617.6	601.3	595.2	587.0	580.9
70°	527.9	517.7	507.5	497.3	497.3
72.5°	444.3	434.1	428.0	415.8	411.7
75°	366.9	354.7	344.5	336.3	330.2
77.5°	289.4	277.2	271.1	260.9	260.9
80°	216.1	207.9	201.8	197.7	189.6
82.5°	148.8	144.7	138.6	132.5	126.4
85°	87.6	85.6	81.5	71.3	69.3
87.5°	34.7	34.7	30.6	28.5	26.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)