

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: P296092

Luminaire Tested: **24RLN-LD5-80-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P296092  
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-6500K  
Description: RLN LED 2x4 TUNABLE WHITE TROFFER  
WITH STANDARD LENS  
Light Source: (504) 90 CRI LEDS TUNED TO 6500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7652.0 lumens  
Efficiency: N/A  
Efficacy: 120.3 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

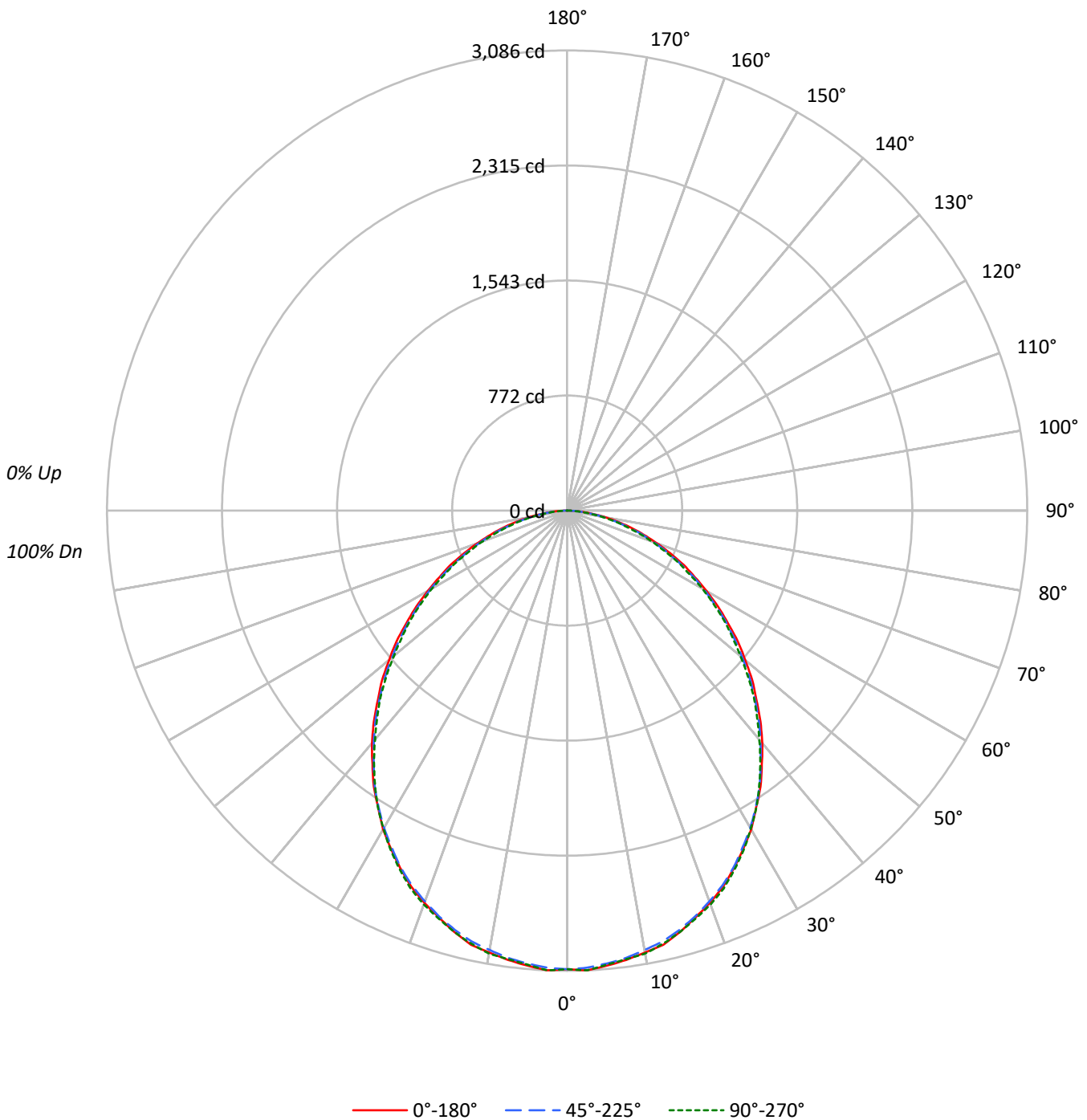
Input Watts (W): 63.612  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P296092

CATALOG NUMBER: 24RLN-LD5-80-UNV-L92765-W2A1-U-6500K

### Luminous Intensity Polar Plot





TEST NUMBER: P296092

CATALOG NUMBER: 24RLN-LD5-80-UNV-L92765-W2A1-U-6500K

**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°	4139	4139	4139
5°	4138	4118	4128
10°	4111	4088	4121
15°	4075	4054	4075
20°	4008	3994	4026
25°	3929	3921	3943
30°	3835	3816	3828
35°	3714	3698	3690
40°	3577	3543	3521
45°	3415	3382	3368
50°	3261	3209	3173
55°	3087	3040	3011
60°	2903	2850	2817
65°	2743	2641	2617
70°	2515	2418	2369
75°	2310	2169	2079
80°	2028	1894	1779
85°	1639	1524	1295



TEST NUMBER: P296092

CATALOG NUMBER: 24RLN-LD5-80-UNV-L92765-W2A1-U-6500K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	290.2	3.8
10°-20°	822.8	10.8
20°-30°	1217.0	15.9
30°-40°	1404.6	18.4
40°-50°	1371.8	17.9
50°-60°	1158.4	15.1
60°-70°	825.1	10.8
70°-80°	446.8	5.8
80°-90°	115.3	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°	2330.0	30.4
0°-40°	3734.6	48.8
0°-60°	6264.8	81.9
0°-90°	7652.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7652.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3076	3076	3076	3076	3076	
5°	3064	3064	3049	3056	3056	291
15°	2925	2913	2910	2923	2925	824
25°	2646	2632	2641	2651	2656	1218
35°	2261	2244	2251	2244	2246	1411
45°	1795	1780	1777	1770	1770	1388
55°	1316	1298	1296	1284	1284	1180
65°	862	844	830	820	822	849
75°	444	430	417	407	400	470
85°	106	104	99	86	84	125
90°	0	0	0	0	0	



TEST NUMBER: P296092

CATALOG NUMBER: 24RLN-LD5-80-UNV-L92765-W2A1-U-6500K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3075.9	3075.9	3075.9	3075.9	3075.9
2.5°	3085.8	3073.4	3068.5	3070.9	3085.8
5°	3063.5	3063.5	3048.7	3056.1	3056.1
7.5°	3038.9	3041.3	3026.5	3038.9	3033.9
10°	3009.2	3001.8	2992.0	3011.7	3016.6
12.5°	2982.1	2964.8	2959.9	2972.2	2974.7
15°	2925.3	2913.0	2910.5	2922.8	2925.3
17.5°	2861.1	2863.6	2853.7	2871.0	2868.5
20°	2799.4	2794.5	2789.5	2809.3	2811.7
22.5°	2730.3	2715.5	2720.4	2737.7	2742.6
25°	2646.3	2631.5	2641.4	2651.3	2656.2
27.5°	2557.5	2550.1	2547.6	2559.9	2564.9
30°	2468.6	2456.3	2456.3	2471.1	2463.7
32.5°	2360.0	2350.1	2355.1	2360.0	2362.5
35°	2261.2	2244.0	2251.4	2244.0	2246.4
37.5°	2145.2	2132.9	2130.4	2127.9	2127.9
40°	2036.6	2026.7	2016.9	2016.9	2004.5
42.5°	1918.1	1905.8	1900.8	1893.4	1886.0
45°	1794.7	1779.9	1777.4	1770.0	1770.0
47.5°	1683.6	1661.4	1658.9	1644.1	1644.1
50°	1557.7	1542.9	1533.0	1523.1	1515.7
52.5°	1444.1	1429.3	1414.5	1404.6	1397.2
55°	1315.8	1298.5	1296.0	1283.7	1283.7
57.5°	1199.7	1184.9	1175.1	1160.2	1162.7
60°	1078.8	1064.0	1059.0	1046.7	1046.7
62.5°	965.2	952.9	945.5	933.1	923.3
65°	861.5	844.3	829.5	819.6	822.0
67.5°	748.0	728.2	720.8	711.0	703.6
70°	639.4	627.0	614.7	602.3	602.3
72.5°	538.2	525.8	518.4	503.6	498.7
75°	444.3	429.5	417.2	407.3	399.9
77.5°	350.5	335.7	328.3	316.0	316.0
80°	261.7	251.8	244.4	239.5	229.6
82.5°	180.2	175.3	167.9	160.5	153.1
85°	106.2	103.7	98.7	86.4	83.9
87.5°	42.0	42.0	37.0	34.6	32.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)