

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: P296073

Luminaire Tested: **24RLN-LD5-67-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296073
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-LD5-67-UNV-L92765-W2A1-U-5700K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER WITH STANDARD LENS
Light Source: (504) 90 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6313.0 lumens
Efficiency: N/A
Efficacy: 125.9 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

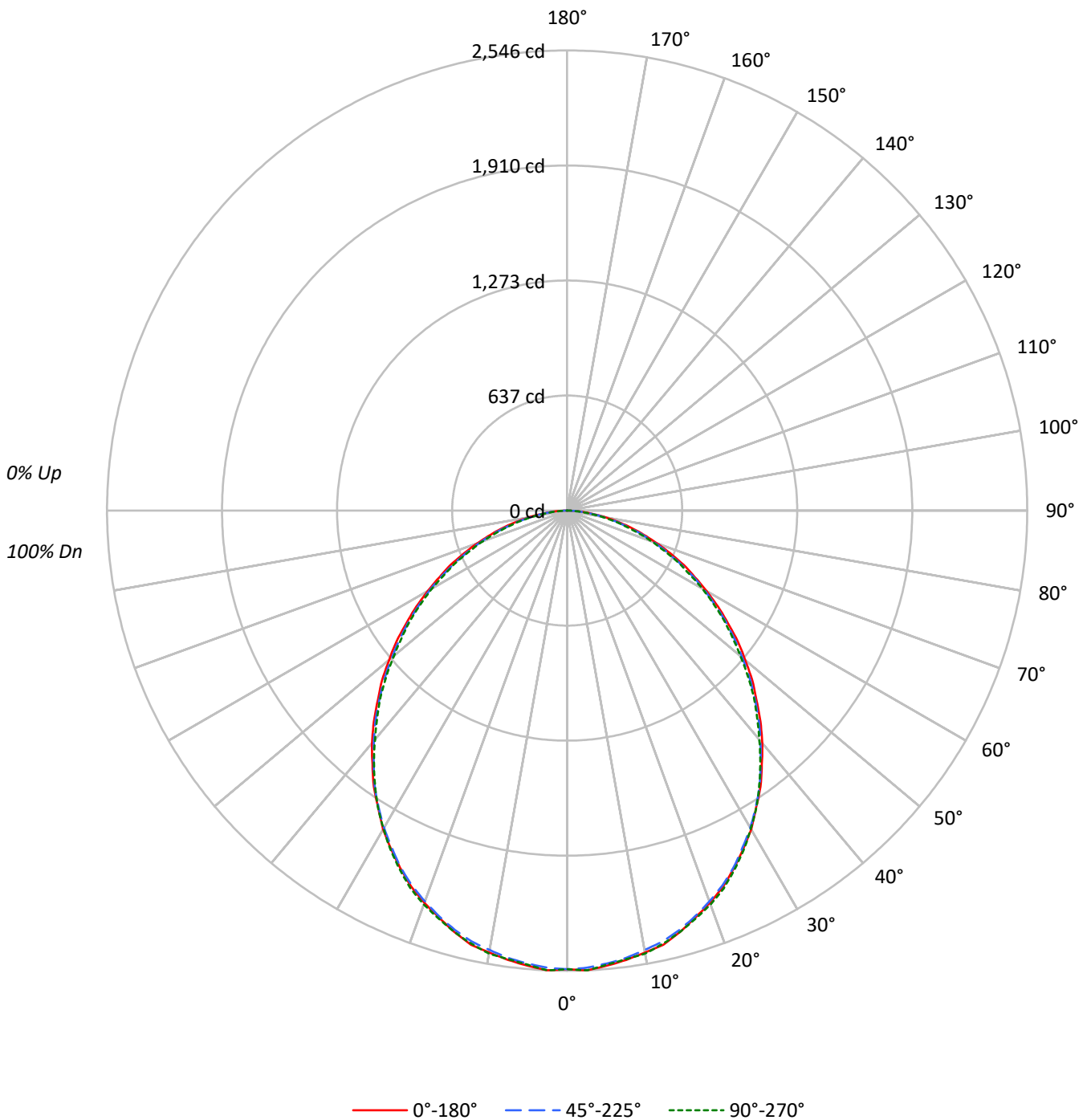
Input Watts (W): 50.127
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P296073

CATALOG NUMBER: 24RLN-LD5-67-UNV-L92765-W2A1-U-5700K

Luminous Intensity Polar Plot





TEST NUMBER: P296073

CATALOG NUMBER: 24RLN-LD5-67-UNV-L92765-W2A1-U-5700K

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°	3414	3414	3414
5°	3414	3397	3405
10°	3392	3372	3400
15°	3362	3345	3362
20°	3307	3295	3321
25°	3241	3235	3253
30°	3164	3148	3158
35°	3064	3051	3044
40°	2951	2922	2905
45°	2817	2790	2779
50°	2690	2647	2618
55°	2546	2508	2484
60°	2395	2351	2324
65°	2263	2179	2159
70°	2075	1995	1955
75°	1906	1789	1715
80°	1673	1562	1468
85°	1352	1258	1068



TEST NUMBER: P296073

CATALOG NUMBER: 24RLN-LD5-67-UNV-L92765-W2A1-U-5700K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	239.4	3.8
10°-20°	678.8	10.8
20°-30°	1004.1	15.9
30°-40°	1158.8	18.4
40°-50°	1131.8	17.9
50°-60°	955.7	15.1
60°-70°	680.7	10.8
70°-80°	368.6	5.8
80°-90°	95.1	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°	1922.3	30.4
0°-40°	3081.1	48.8
0°-60°	5168.6	81.9
0°-90°	6313.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6313.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2538	2538	2538	2538	2538	
5°	2528	2528	2515	2521	2521	240
15°	2413	2403	2401	2411	2413	680
25°	2183	2171	2179	2187	2191	1005
35°	1866	1851	1857	1851	1853	1164
45°	1481	1468	1466	1460	1460	1145
55°	1086	1071	1069	1059	1059	973
65°	711	696	684	676	678	701
75°	367	354	344	336	330	388
85°	88	86	82	71	69	103
90°	0	0	0	0	0	



TEST NUMBER: P296073

CATALOG NUMBER: 24RLN-LD5-67-UNV-L92765-W2A1-U-5700K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2537.6	2537.6	2537.6	2537.6	2537.6
2.5°	2545.8	2535.6	2531.5	2533.6	2545.8
5°	2527.5	2527.5	2515.2	2521.4	2521.4
7.5°	2507.1	2509.1	2496.9	2507.1	2503.0
10°	2482.7	2476.5	2468.4	2484.7	2488.8
12.5°	2460.3	2446.0	2441.9	2452.1	2454.1
15°	2413.4	2403.2	2401.2	2411.4	2413.4
17.5°	2360.5	2362.5	2354.3	2368.6	2366.6
20°	2309.5	2305.5	2301.4	2317.7	2319.7
22.5°	2252.5	2240.3	2244.4	2258.6	2262.7
25°	2183.3	2171.1	2179.2	2187.3	2191.4
27.5°	2110.0	2103.8	2101.8	2112.0	2116.1
30°	2036.6	2026.5	2026.5	2038.7	2032.6
32.5°	1947.0	1938.9	1942.9	1947.0	1949.1
35°	1865.6	1851.3	1857.4	1851.3	1853.3
37.5°	1769.8	1759.7	1757.6	1755.6	1755.6
40°	1680.2	1672.1	1663.9	1663.9	1653.7
42.5°	1582.5	1572.3	1568.2	1562.1	1556.0
45°	1480.6	1468.4	1466.4	1460.3	1460.3
47.5°	1389.0	1370.7	1368.6	1356.4	1356.4
50°	1285.1	1272.9	1264.7	1256.6	1250.5
52.5°	1191.4	1179.2	1167.0	1158.8	1152.7
55°	1085.5	1071.3	1069.2	1059.0	1059.0
57.5°	989.8	977.6	969.4	957.2	959.3
60°	890.0	877.8	873.7	863.5	863.5
62.5°	796.3	786.1	780.0	769.8	761.7
65°	710.8	696.5	684.3	676.2	678.2
67.5°	617.1	600.8	594.7	586.6	580.4
70°	527.5	517.3	507.1	496.9	496.9
72.5°	444.0	433.8	427.7	415.5	411.4
75°	366.6	354.4	344.2	336.0	329.9
77.5°	289.2	277.0	270.9	260.7	260.7
80°	215.9	207.7	201.6	197.6	189.4
82.5°	148.7	144.6	138.5	132.4	126.3
85°	87.6	85.5	81.5	71.3	69.2
87.5°	34.6	34.6	30.5	28.5	26.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)