

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: P295934

Luminaire Tested: **24RLN-LD5-67-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295934
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-L82765-W2A1-U-6500K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER WITH STANDARD LENS
Light Source: (504) 80 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7000.0 lumens
Efficiency: N/A
Efficacy: 137.9 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

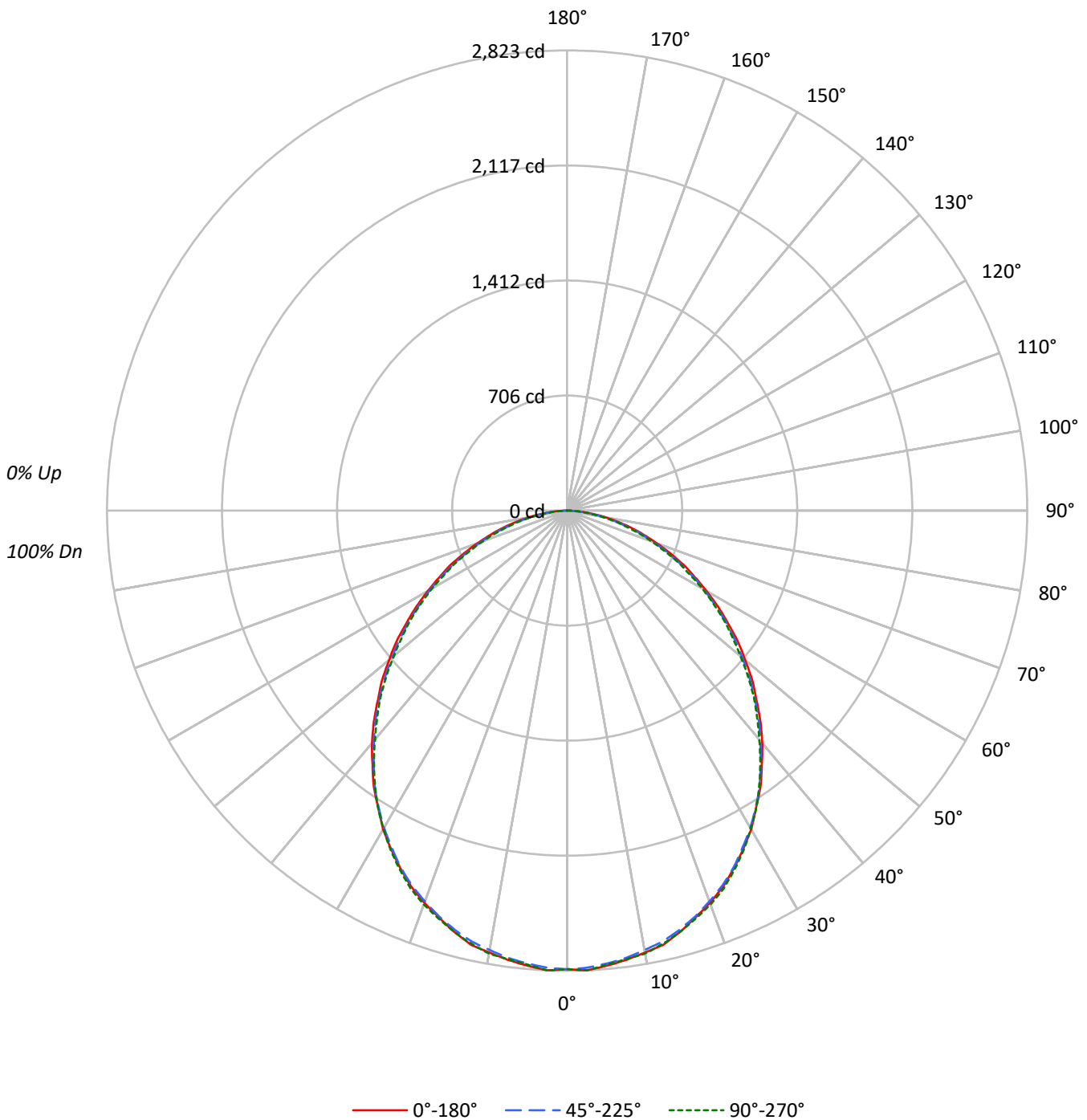
Input Watts (W): 50.778
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3786	3786	3786
5°	3785	3767	3776
10°	3761	3739	3770
15°	3728	3709	3728
20°	3667	3654	3683
25°	3594	3587	3607
30°	3509	3491	3502
35°	3398	3383	3375
40°	3272	3241	3221
45°	3124	3094	3081
50°	2983	2936	2902
55°	2824	2781	2755
60°	2656	2607	2577
65°	2509	2416	2394
70°	2301	2212	2168
75°	2113	1984	1902
80°	1855	1733	1627
85°	1499	1394	1186



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	265.5	3.8
10°-20°	752.7	10.8
20°-30°	1113.3	15.9
30°-40°	1284.9	18.4
40°-50°	1255.0	17.9
50°-60°	1059.7	15.1
60°-70°	754.8	10.8
70°-80°	408.7	5.8
80°-90°	105.4	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°	2131.5	30.4
0°-40°	3416.4	48.8
0°-60°	5731.0	81.9
0°-90°	7000.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7000.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2814	2814	2814	2814	2814	
5°	2802	2802	2789	2796	2796	266
15°	2676	2665	2662	2674	2676	754
25°	2421	2407	2416	2425	2430	1115
35°	2069	2053	2060	2053	2055	1291
45°	1642	1628	1626	1619	1619	1269
55°	1204	1188	1186	1174	1174	1079
65°	788	772	759	750	752	777
75°	406	393	382	373	366	430
85°	97	95	90	79	77	114
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2813.8	2813.8	2813.8	2813.8	2813.8
2.5°	2822.8	2811.5	2807.0	2809.3	2822.8
5°	2802.5	2802.5	2789.0	2795.7	2795.7
7.5°	2779.9	2782.2	2768.6	2779.9	2775.4
10°	2752.8	2746.1	2737.0	2755.1	2759.6
12.5°	2728.0	2712.2	2707.7	2719.0	2721.2
15°	2676.0	2664.8	2662.5	2673.8	2676.0
17.5°	2617.3	2619.6	2610.6	2626.4	2624.1
20°	2560.9	2556.4	2551.8	2569.9	2572.2
22.5°	2497.6	2484.1	2488.6	2504.4	2508.9
25°	2420.9	2407.3	2416.3	2425.4	2429.9
27.5°	2339.6	2332.8	2330.5	2341.8	2346.3
30°	2258.3	2247.0	2247.0	2260.5	2253.8
32.5°	2158.9	2149.9	2154.4	2158.9	2161.2
35°	2068.6	2052.8	2059.5	2052.8	2055.0
37.5°	1962.4	1951.1	1948.9	1946.6	1946.6
40°	1863.1	1854.0	1845.0	1845.0	1833.7
42.5°	1754.7	1743.4	1738.9	1732.1	1725.3
45°	1641.8	1628.2	1626.0	1619.2	1619.2
47.5°	1540.1	1519.8	1517.6	1504.0	1504.0
50°	1425.0	1411.4	1402.4	1393.4	1386.6
52.5°	1321.1	1307.5	1294.0	1285.0	1278.2
55°	1203.7	1187.8	1185.6	1174.3	1174.3
57.5°	1097.5	1084.0	1074.9	1061.4	1063.6
60°	986.9	973.3	968.8	957.5	957.5
62.5°	883.0	871.7	864.9	853.6	844.6
65°	788.1	772.3	758.8	749.7	752.0
67.5°	684.3	666.2	659.4	650.4	643.6
70°	584.9	573.6	562.3	551.0	551.0
72.5°	492.3	481.0	474.2	460.7	456.2
75°	406.5	392.9	381.6	372.6	365.8
77.5°	320.7	307.1	300.3	289.1	289.1
80°	239.4	230.3	223.6	219.1	210.0
82.5°	164.9	160.3	153.6	146.8	140.0
85°	97.1	94.8	90.3	79.0	76.8
87.5°	38.4	38.4	33.9	31.6	29.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)