

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: P296087

Luminaire Tested: **24RLN-LD5-80-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296087
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-4000K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER WITH STANDARD LENS
Light Source: (504) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7121.0 lumens
Efficiency: N/A
Efficacy: 115.8 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

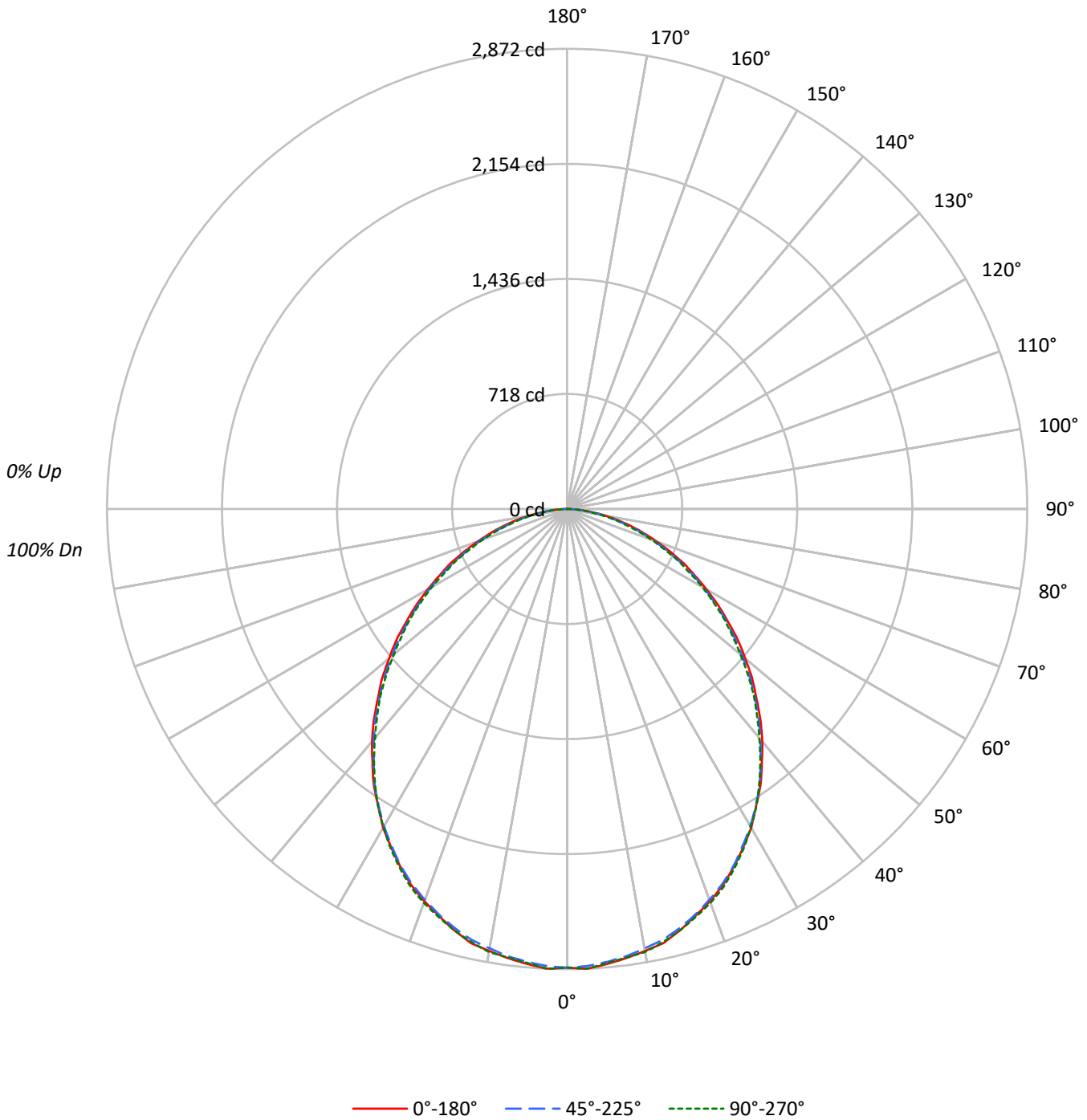
Input Watts (W): 61.473
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3851	3851	3851
5°	3851	3832	3841
10°	3826	3804	3835
15°	3792	3773	3792
20°	3730	3717	3747
25°	3656	3649	3670
30°	3569	3551	3562
35°	3456	3441	3434
40°	3329	3297	3276
45°	3178	3147	3134
50°	3034	2986	2952
55°	2872	2829	2802
60°	2701	2652	2621
65°	2553	2457	2436
70°	2341	2250	2205
75°	2150	2018	1935
80°	1887	1762	1655
85°	1525	1419	1206



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	270.1	3.8
10°-20°	765.7	10.8
20°-30°	1132.6	15.9
30°-40°	1307.1	18.4
40°-50°	1276.6	17.9
50°-60°	1078.0	15.1
60°-70°	767.9	10.8
70°-80°	415.7	5.8
80°-90°	107.3	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°	2168.3	30.4
0°-40°	3475.4	48.8
0°-60°	5830.1	81.9
0°-90°	7121.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7121.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2862	2862	2862	2862	2862	
5°	2851	2851	2837	2844	2844	271
15°	2722	2711	2708	2720	2722	767
25°	2463	2449	2458	2467	2472	1134
35°	2104	2088	2095	2088	2090	1313
45°	1670	1656	1654	1647	1647	1291
55°	1224	1208	1206	1195	1195	1098
65°	802	786	772	763	765	790
75°	414	400	388	379	372	438
85°	99	96	92	80	78	116
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2862.4	2862.4	2862.4	2862.4	2862.4
2.5°	2871.6	2860.1	2855.5	2857.8	2871.6
5°	2851.0	2851.0	2837.2	2844.1	2844.1
7.5°	2828.0	2830.3	2816.5	2828.0	2823.4
10°	2800.4	2793.5	2784.3	2802.7	2807.3
12.5°	2775.1	2759.1	2754.5	2766.0	2768.2
15°	2722.3	2710.8	2708.5	2720.0	2722.3
17.5°	2662.6	2664.9	2655.7	2671.8	2669.5
20°	2605.1	2600.5	2596.0	2614.3	2616.6
22.5°	2540.8	2527.0	2531.6	2547.7	2552.3
25°	2462.7	2448.9	2458.1	2467.3	2471.9
27.5°	2380.0	2373.1	2370.8	2382.3	2386.9
30°	2297.3	2285.8	2285.8	2299.6	2292.7
32.5°	2196.2	2187.0	2191.6	2196.2	2198.5
35°	2104.3	2088.2	2095.1	2088.2	2090.5
37.5°	1996.4	1984.9	1982.6	1980.3	1980.3
40°	1895.3	1886.1	1876.9	1876.9	1865.4
42.5°	1785.0	1773.5	1768.9	1762.0	1755.1
45°	1670.1	1656.4	1654.1	1647.2	1647.2
47.5°	1566.8	1546.1	1543.8	1530.0	1530.0
50°	1449.6	1435.8	1426.6	1417.4	1410.5
52.5°	1343.9	1330.1	1316.4	1307.2	1300.3
55°	1224.5	1208.4	1206.1	1194.6	1194.6
57.5°	1116.5	1102.7	1093.5	1079.7	1082.0
60°	1003.9	990.1	985.5	974.1	974.1
62.5°	898.2	886.8	879.9	868.4	859.2
65°	801.8	785.7	771.9	762.7	765.0
67.5°	696.1	677.7	670.8	661.6	654.7
70°	595.0	583.5	572.0	560.5	560.5
72.5°	500.8	489.3	482.4	468.6	464.1
75°	413.5	399.7	388.2	379.1	372.2
77.5°	326.2	312.4	305.5	294.1	294.1
80°	243.5	234.3	227.4	222.8	213.6
82.5°	167.7	163.1	156.2	149.3	142.4
85°	98.8	96.5	91.9	80.4	78.1
87.5°	39.1	39.1	34.5	32.2	29.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)