

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: P295922

Luminaire Tested: **24RLN-LD5-60-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295922
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-LD5-60-UNV-L82765-W2A1-U-5000K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH STANDARD LENS
Light Source: (504) 80 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6203.0 lumens
Efficiency: N/A
Efficacy: 140.1 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

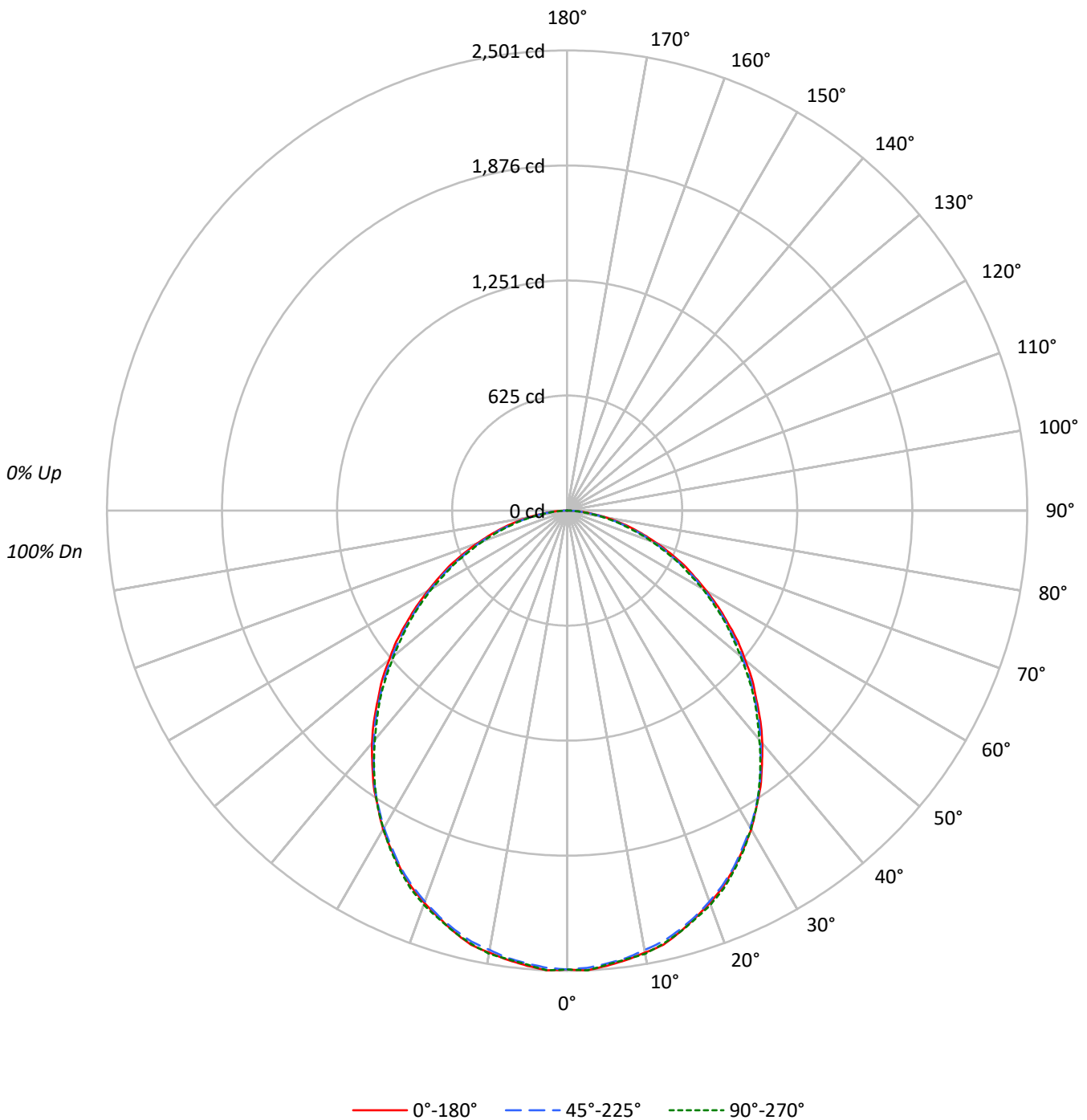
Input Watts (W): 44.268
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3355	3355	3355
5°	3354	3338	3346
10°	3333	3314	3341
15°	3303	3287	3303
20°	3249	3238	3264
25°	3185	3179	3197
30°	3109	3093	3103
35°	3011	2998	2991
40°	2900	2872	2854
45°	2768	2742	2730
50°	2643	2601	2572
55°	2502	2464	2441
60°	2353	2310	2283
65°	2223	2141	2122
70°	2039	1960	1921
75°	1873	1758	1685
80°	1643	1535	1442
85°	1328	1235	1050



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	235.3	3.8
10°-20°	667.0	10.8
20°-30°	986.6	15.9
30°-40°	1138.6	18.4
40°-50°	1112.1	17.9
50°-60°	939.1	15.1
60°-70°	668.9	10.8
70°-80°	362.2	5.8
80°-90°	93.4	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°	1888.8	30.4
0°-40°	3027.4	48.8
0°-60°	5078.5	81.9
0°-90°	6203.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6203.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2493	2493	2493	2493	2493	
5°	2483	2483	2471	2477	2477	236
15°	2371	2361	2359	2369	2371	668
25°	2145	2133	2141	2149	2153	988
35°	1833	1819	1825	1819	1821	1144
45°	1455	1443	1441	1435	1435	1125
55°	1067	1053	1051	1041	1041	956
65°	698	684	672	664	666	688
75°	360	348	338	330	324	381
85°	86	84	80	70	68	101
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2493.4	2493.4	2493.4	2493.4	2493.4
2.5°	2501.4	2491.4	2487.4	2489.4	2501.4
5°	2483.4	2483.4	2471.4	2477.4	2477.4
7.5°	2463.4	2465.4	2453.4	2463.4	2459.4
10°	2439.4	2433.4	2425.4	2441.4	2445.4
12.5°	2417.4	2403.4	2399.4	2409.4	2411.4
15°	2371.4	2361.4	2359.4	2369.4	2371.4
17.5°	2319.3	2321.3	2313.3	2327.3	2325.3
20°	2269.3	2265.3	2261.3	2277.3	2279.3
22.5°	2213.3	2201.3	2205.3	2219.3	2223.3
25°	2145.2	2133.2	2141.2	2149.2	2153.2
27.5°	2073.2	2067.2	2065.2	2075.2	2079.2
30°	2001.1	1991.1	1991.1	2003.1	1997.1
32.5°	1913.1	1905.1	1909.1	1913.1	1915.1
35°	1833.1	1819.0	1825.0	1819.0	1821.0
37.5°	1739.0	1729.0	1727.0	1725.0	1725.0
40°	1650.9	1642.9	1634.9	1634.9	1624.9
42.5°	1554.9	1544.9	1540.9	1534.9	1528.9
45°	1454.8	1442.8	1440.8	1434.8	1434.8
47.5°	1364.8	1346.8	1344.8	1332.8	1332.8
50°	1262.7	1250.7	1242.7	1234.7	1228.7
52.5°	1170.7	1158.7	1146.7	1138.7	1132.6
55°	1066.6	1052.6	1050.6	1040.6	1040.6
57.5°	972.6	960.6	952.5	940.5	942.5
60°	874.5	862.5	858.5	848.5	848.5
62.5°	782.4	772.4	766.4	756.4	748.4
65°	698.4	684.4	672.4	664.4	666.4
67.5°	606.3	590.3	584.3	576.3	570.3
70°	518.3	508.3	498.3	488.3	488.3
72.5°	436.3	426.2	420.2	408.2	404.2
75°	360.2	348.2	338.2	330.2	324.2
77.5°	284.2	272.2	266.2	256.1	256.1
80°	212.1	204.1	198.1	194.1	186.1
82.5°	146.1	142.1	136.1	130.1	124.1
85°	86.0	84.0	80.0	70.0	68.0
87.5°	34.0	34.0	30.0	28.0	26.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)