

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: P296077

Luminaire Tested: **24RLN-LD5-74-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296077
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-LD5-74-UNV-L92765-W2A1-U-3500K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH STANDARD LENS
Light Source: (504) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6360.0 lumens
Efficiency: N/A
Efficacy: 115.3 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

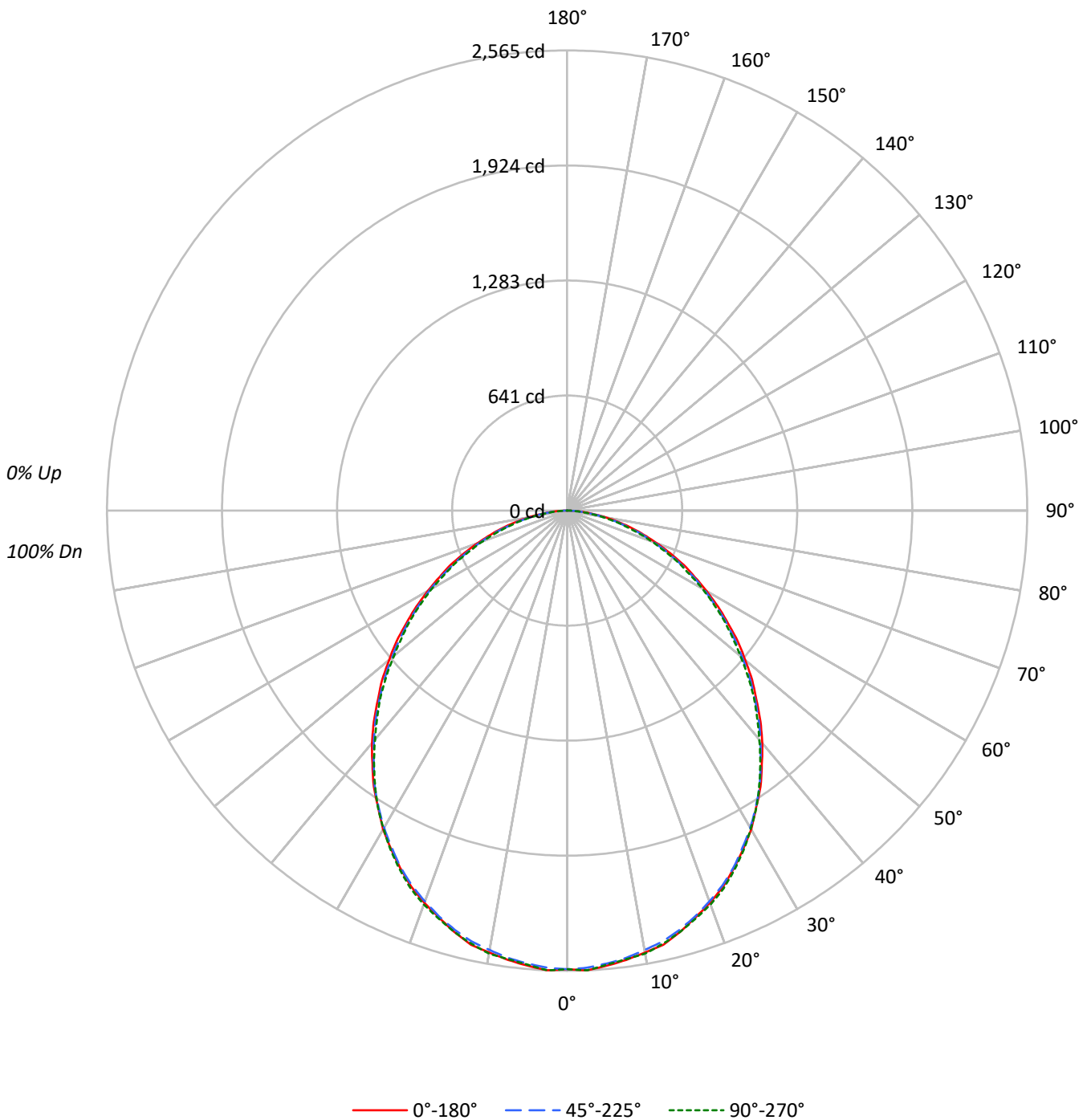
Input Watts (W): 55.149
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	3440	3440	3440
5°	3439	3422	3431
10°	3417	3398	3426
15°	3387	3370	3387
20°	3331	3320	3346
25°	3265	3259	3278
30°	3188	3172	3181
35°	3087	3074	3067
40°	2973	2944	2926
45°	2838	2811	2799
50°	2710	2667	2637
55°	2565	2527	2503
60°	2413	2369	2341
65°	2280	2195	2175
70°	2090	2010	1969
75°	1920	1803	1728
80°	1685	1574	1478
85°	1362	1267	1078



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	241.2	3.8
10°-20°	683.8	10.8
20°-30°	1011.5	15.9
30°-40°	1167.4	18.4
40°-50°	1140.2	17.9
50°-60°	962.8	15.1
60°-70°	685.8	10.8
70°-80°	371.3	5.8
80°-90°	95.8	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°	1936.6	30.4
0°-40°	3104.0	48.8
0°-60°	5207.0	81.9
0°-90°	6360.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6360.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2556	2556	2556	2556	2556	
5°	2546	2546	2534	2540	2540	242
15°	2431	2421	2419	2429	2431	685
25°	2200	2187	2195	2204	2208	1013
35°	1879	1865	1871	1865	1867	1173
45°	1492	1479	1477	1471	1471	1153
55°	1094	1079	1077	1067	1067	980
65°	716	702	689	681	683	706
75°	369	357	347	338	332	391
85°	88	86	82	72	70	104
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2556.5	2556.5	2556.5	2556.5	2556.5
2.5°	2564.7	2554.5	2550.4	2552.4	2564.7
5°	2546.3	2546.3	2534.0	2540.1	2540.1
7.5°	2525.8	2527.8	2515.5	2525.8	2521.7
10°	2501.1	2495.0	2486.8	2503.2	2507.3
12.5°	2478.6	2464.2	2460.1	2470.4	2472.4
15°	2431.4	2421.1	2419.1	2429.3	2431.4
17.5°	2378.0	2380.1	2371.9	2386.2	2384.2
20°	2326.7	2322.6	2318.5	2334.9	2337.0
22.5°	2269.3	2257.0	2261.1	2275.4	2279.5
25°	2199.5	2187.2	2195.4	2203.6	2207.7
27.5°	2125.7	2119.5	2117.5	2127.7	2131.8
30°	2051.8	2041.5	2041.5	2053.8	2047.7
32.5°	1961.5	1953.3	1957.4	1961.5	1963.6
35°	1879.4	1865.1	1871.2	1865.1	1867.1
37.5°	1783.0	1772.8	1770.7	1768.6	1768.6
40°	1692.7	1684.5	1676.3	1676.3	1666.1
42.5°	1594.2	1584.0	1579.9	1573.7	1567.6
45°	1491.7	1479.3	1477.3	1471.1	1471.1
47.5°	1399.3	1380.9	1378.8	1366.5	1366.5
50°	1294.7	1282.4	1274.2	1266.0	1259.8
52.5°	1200.3	1188.0	1175.7	1167.5	1161.3
55°	1093.6	1079.2	1077.2	1066.9	1066.9
57.5°	997.2	984.9	976.7	964.3	966.4
60°	896.6	884.3	880.2	870.0	870.0
62.5°	802.3	792.0	785.8	775.6	767.4
65°	716.1	701.7	689.4	681.2	683.2
67.5°	621.7	605.3	599.1	590.9	584.8
70°	531.4	521.2	510.9	500.6	500.6
72.5°	447.3	437.0	430.9	418.6	414.5
75°	369.3	357.0	346.8	338.5	332.4
77.5°	291.4	279.0	272.9	262.6	262.6
80°	217.5	209.3	203.1	199.0	190.8
82.5°	149.8	145.7	139.5	133.4	127.2
85°	88.2	86.2	82.1	71.8	69.8
87.5°	34.9	34.9	30.8	28.7	26.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)