

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: P296067

Luminaire Tested: **24RLN-LD5-67-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296067
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-3000K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER WITH STANDARD LENS
Light Source: (504) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5457.0 lumens
Efficiency: N/A
Efficacy: 113.3 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

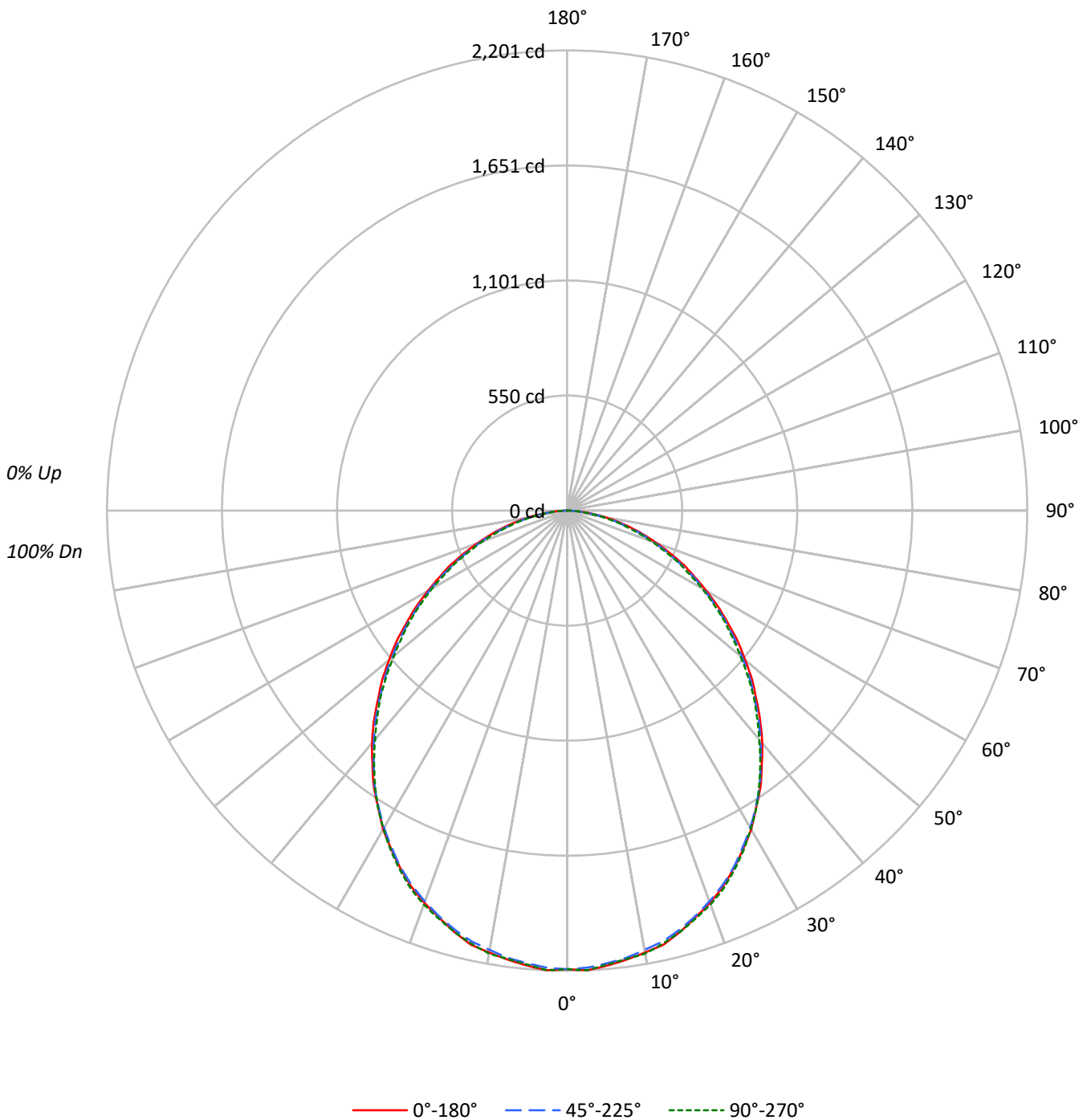
Input Watts (W): 48.174
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2951	2951	2951
5°	2951	2937	2944
10°	2932	2915	2939
15°	2906	2891	2906
20°	2859	2848	2871
25°	2802	2797	2812
30°	2735	2722	2730
35°	2649	2637	2631
40°	2551	2526	2511
45°	2435	2412	2402
50°	2325	2289	2263
55°	2201	2168	2147
60°	2070	2032	2009
65°	1956	1883	1866
70°	1794	1725	1690
75°	1647	1547	1483
80°	1446	1351	1268
85°	1169	1087	925



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	207.0	3.8
10°-20°	586.7	10.8
20°-30°	867.9	15.9
30°-40°	1001.7	18.4
40°-50°	978.3	17.9
50°-60°	826.1	15.1
60°-70°	588.4	10.8
70°-80°	318.6	5.8
80°-90°	82.2	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°	1661.6	30.4
0°-40°	2663.3	48.8
0°-60°	4467.8	81.9
0°-90°	5457.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5457.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2194	2194	2194	2194	2194	
5°	2185	2185	2174	2180	2180	207
15°	2086	2077	2076	2084	2086	588
25°	1887	1877	1884	1891	1894	869
35°	1613	1600	1606	1600	1602	1006
45°	1280	1269	1268	1262	1262	990
55°	938	926	924	915	915	841
65°	614	602	592	584	586	606
75°	317	306	298	290	285	335
85°	76	74	70	62	60	89
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2193.6	2193.6	2193.6	2193.6	2193.6
2.5°	2200.6	2191.8	2188.3	2190.0	2200.6
5°	2184.8	2184.8	2174.2	2179.5	2179.5
7.5°	2167.2	2168.9	2158.3	2167.2	2163.6
10°	2146.0	2140.7	2133.7	2147.8	2151.3
12.5°	2126.7	2114.3	2110.8	2119.6	2121.4
15°	2086.2	2077.4	2075.6	2084.4	2086.2
17.5°	2040.4	2042.2	2035.1	2047.4	2045.7
20°	1996.4	1992.9	1989.3	2003.4	2005.2
22.5°	1947.1	1936.5	1940.0	1952.4	1955.9
25°	1887.2	1876.7	1883.7	1890.8	1894.3
27.5°	1823.9	1818.6	1816.8	1825.6	1829.1
30°	1760.5	1751.7	1751.7	1762.2	1757.0
32.5°	1683.0	1676.0	1679.5	1683.0	1684.8
35°	1612.6	1600.3	1605.6	1600.3	1602.0
37.5°	1529.9	1521.1	1519.3	1517.5	1517.5
40°	1452.4	1445.4	1438.3	1438.3	1429.5
42.5°	1367.9	1359.1	1355.6	1350.3	1345.0
45°	1279.9	1269.3	1267.5	1262.3	1262.3
47.5°	1200.6	1184.8	1183.0	1172.5	1172.5
50°	1110.9	1100.3	1093.3	1086.2	1080.9
52.5°	1029.9	1019.3	1008.8	1001.7	996.4
55°	938.3	926.0	924.3	915.4	915.4
57.5°	855.6	845.0	838.0	827.4	829.2
60°	769.3	758.8	755.2	746.4	746.4
62.5°	688.3	679.5	674.3	665.5	658.4
65°	614.4	602.1	591.5	584.5	586.2
67.5°	533.4	519.3	514.1	507.0	501.7
70°	456.0	447.2	438.4	429.6	429.6
72.5°	383.8	375.0	369.7	359.1	355.6
75°	316.9	306.3	297.5	290.5	285.2
77.5°	250.0	239.4	234.1	225.3	225.3
80°	186.6	179.6	174.3	170.8	163.7
82.5°	128.5	125.0	119.7	114.4	109.1
85°	75.7	73.9	70.4	61.6	59.9
87.5°	29.9	29.9	26.4	24.6	22.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)