

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: P296061

Luminaire Tested: **24RLN-LD5-60-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296061
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-L92765-W2A1-U-4500K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER WITH STANDARD LENS
Light Source: (504) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5458.0 lumens
Efficiency: N/A
Efficacy: 123.8 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

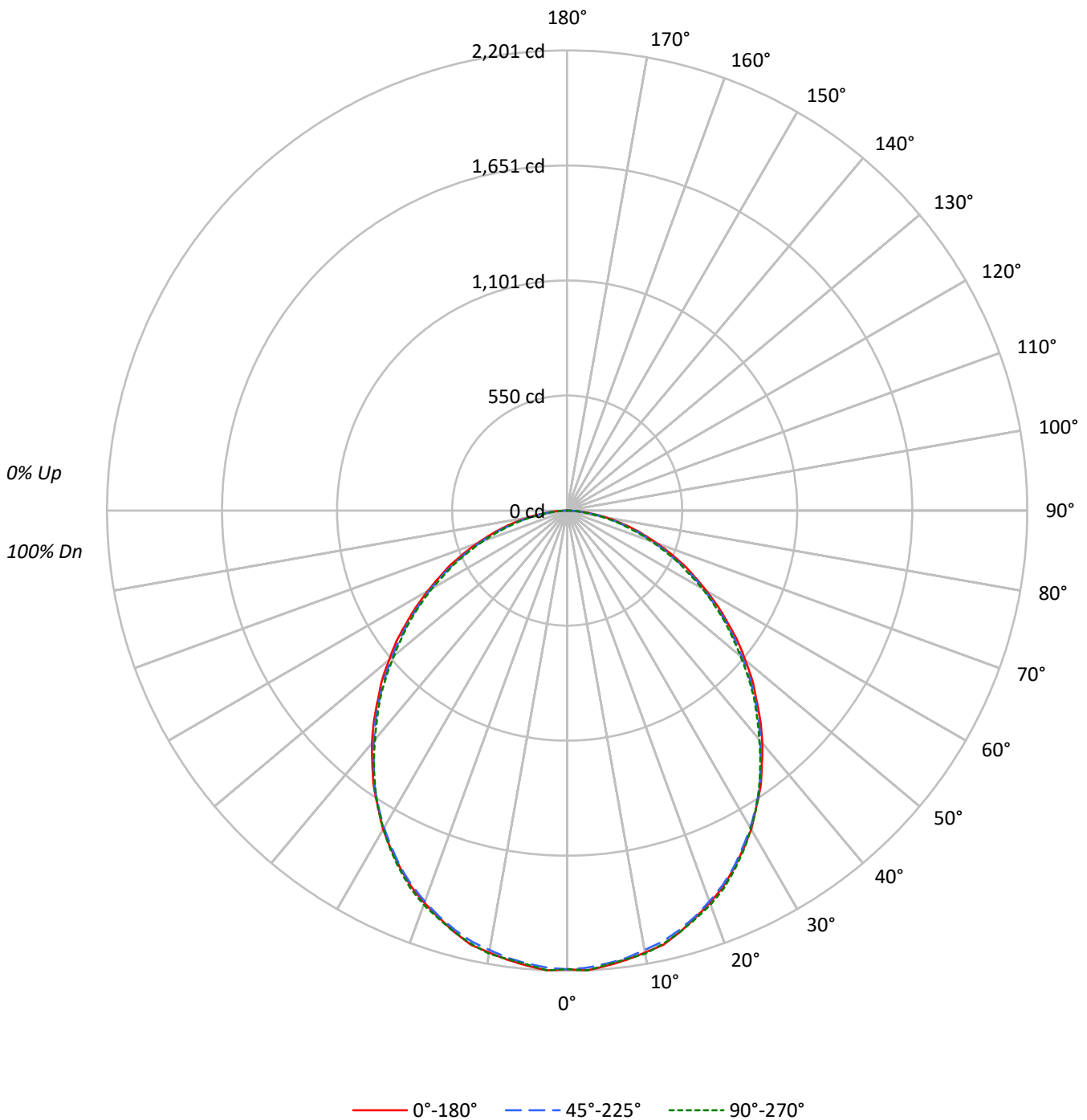
Input Watts (W): 44.082
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2952	2952	2952
5°	2951	2937	2944
10°	2933	2916	2940
15°	2907	2892	2907
20°	2859	2849	2872
25°	2802	2797	2813
30°	2736	2722	2730
35°	2649	2638	2632
40°	2552	2527	2511
45°	2436	2412	2402
50°	2326	2289	2263
55°	2202	2168	2148
60°	2071	2033	2009
65°	1956	1883	1867
70°	1794	1725	1690
75°	1647	1547	1483
80°	1446	1351	1269
85°	1169	1087	925



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	207.0	3.8
10°-20°	586.9	10.8
20°-30°	868.1	15.9
30°-40°	1001.9	18.4
40°-50°	978.5	17.9
50°-60°	826.3	15.1
60°-70°	588.5	10.8
70°-80°	318.7	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°	1661.9	30.4
0°-40°	2663.8	48.8
0°-60°	4468.6	81.9
0°-90°	5458.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5458.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2194	2194	2194	2194	2194	
5°	2185	2185	2175	2180	2180	207
15°	2087	2078	2076	2085	2087	588
25°	1888	1877	1884	1891	1895	869
35°	1613	1601	1606	1601	1602	1007
45°	1280	1270	1268	1262	1262	990
55°	938	926	924	916	916	841
65°	614	602	592	585	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°	2194.0	2194.0	2194.0	2194.0	2194.0
2.5°	2201.0	2192.2	2188.7	2190.4	2201.0
5°	2185.2	2185.2	2174.6	2179.9	2179.9
7.5°	2167.5	2169.3	2158.7	2167.5	2164.0
10°	2146.4	2141.1	2134.1	2148.2	2151.7
12.5°	2127.1	2114.7	2111.2	2120.0	2121.8
15°	2086.6	2077.7	2076.0	2084.8	2086.6
17.5°	2040.8	2042.5	2035.5	2047.8	2046.1
20°	1996.8	1993.2	1989.7	2003.8	2005.6
22.5°	1947.4	1936.9	1940.4	1952.7	1956.3
25°	1887.6	1877.0	1884.1	1891.1	1894.6
27.5°	1824.2	1818.9	1817.1	1826.0	1829.5
30°	1760.8	1752.0	1752.0	1762.6	1757.3
32.5°	1683.3	1676.3	1679.8	1683.3	1685.1
35°	1612.9	1600.6	1605.9	1600.6	1602.3
37.5°	1530.1	1521.3	1519.6	1517.8	1517.8
40°	1452.7	1445.6	1438.6	1438.6	1429.8
42.5°	1368.1	1359.3	1355.8	1350.5	1345.3
45°	1280.1	1269.5	1267.8	1262.5	1262.5
47.5°	1200.9	1185.0	1183.3	1172.7	1172.7
50°	1111.1	1100.5	1093.5	1086.4	1081.1
52.5°	1030.1	1019.5	1008.9	1001.9	996.6
55°	938.5	926.2	924.4	915.6	915.6
57.5°	855.8	845.2	838.1	827.6	829.3
60°	769.5	758.9	755.4	746.6	746.6
62.5°	688.5	679.7	674.4	665.6	658.5
65°	614.5	602.2	591.6	584.6	586.3
67.5°	533.5	519.4	514.2	507.1	501.8
70°	456.0	447.2	438.4	429.6	429.6
72.5°	383.9	375.1	369.8	359.2	355.7
75°	316.9	306.4	297.6	290.5	285.3
77.5°	250.0	239.5	234.2	225.4	225.4
80°	186.6	179.6	174.3	170.8	163.8
82.5°	128.5	125.0	119.7	114.5	109.2
85°	75.7	74.0	70.4	61.6	59.9
87.5°	29.9	29.9	26.4	24.7	22.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)