

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: P295905

Luminaire Tested: **24RLN-LD5-50-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P295905  
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-LD5-50-UNV-L82765-W2A1-U-5500K  
Description: RLN LED 2x4 TUNABLE WHITE TROFFER  
WITH STANDARD LENS  
Light Source: (504) 80 CRI LEDS TUNED TO 5500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5190.0 lumens  
Efficiency: N/A  
Efficacy: 144.2 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

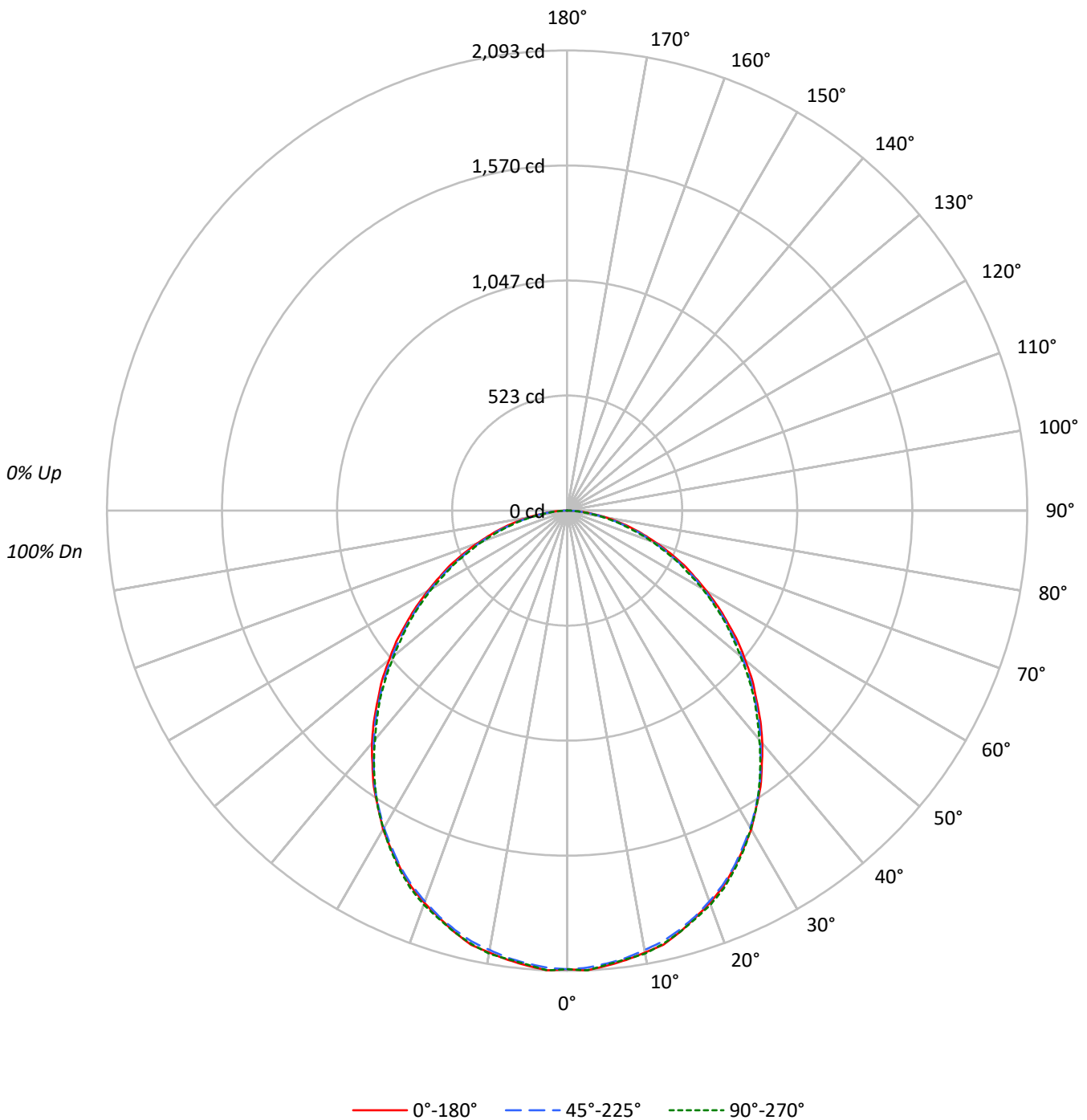
Input Watts (W): 35.991  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2807	2807	2807
5°	2806	2793	2800
10°	2789	2773	2795
15°	2764	2750	2764
20°	2719	2709	2731
25°	2665	2660	2675
30°	2601	2588	2596
35°	2519	2508	2503
40°	2426	2403	2388
45°	2316	2294	2284
50°	2211	2177	2152
55°	2093	2062	2042
60°	1969	1933	1910
65°	1860	1791	1775
70°	1706	1640	1607
75°	1567	1471	1410
80°	1375	1285	1206
85°	1112	1034	878



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	196.8	3.8
10°-20°	558.0	10.8
20°-30°	825.4	15.9
30°-40°	952.7	18.4
40°-50°	930.4	17.9
50°-60°	785.7	15.1
60°-70°	559.6	10.8
70°-80°	303.0	5.8
80°-90°	78.2	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°	1580.3	30.4
0°-40°	2533.0	48.8
0°-60°	4249.1	81.9
0°-90°	5190.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5190.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2086	2086	2086	2086	2086	
5°	2078	2078	2068	2073	2073	197
15°	1984	1976	1974	1982	1984	559
25°	1795	1785	1792	1798	1802	826
35°	1534	1522	1527	1522	1524	957
45°	1217	1207	1206	1200	1200	941
55°	892	881	879	871	871	800
65°	584	573	563	556	558	576
75°	301	291	283	276	271	319
85°	72	70	67	59	57	85
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2086.2	2086.2	2086.2	2086.2	2086.2
2.5°	2092.9	2084.6	2081.2	2082.9	2092.9
5°	2077.9	2077.9	2067.8	2072.8	2072.8
7.5°	2061.1	2062.8	2052.7	2061.1	2057.8
10°	2041.0	2036.0	2029.3	2042.7	2046.0
12.5°	2022.6	2010.9	2007.5	2015.9	2017.6
15°	1984.1	1975.7	1974.1	1982.4	1984.1
17.5°	1940.6	1942.2	1935.5	1947.3	1945.6
20°	1898.7	1895.4	1892.0	1905.4	1907.1
22.5°	1851.8	1841.8	1845.1	1856.8	1860.2
25°	1794.9	1784.9	1791.5	1798.2	1801.6
27.5°	1734.6	1729.6	1727.9	1736.3	1739.6
30°	1674.3	1666.0	1666.0	1676.0	1671.0
32.5°	1600.7	1594.0	1597.3	1600.7	1602.3
35°	1533.7	1522.0	1527.0	1522.0	1523.7
37.5°	1455.0	1446.6	1445.0	1443.3	1443.3
40°	1381.3	1374.6	1367.9	1367.9	1359.6
42.5°	1301.0	1292.6	1289.2	1284.2	1279.2
45°	1217.2	1207.2	1205.5	1200.5	1200.5
47.5°	1141.9	1126.8	1125.2	1115.1	1115.1
50°	1056.5	1046.5	1039.8	1033.1	1028.0
52.5°	979.5	969.4	959.4	952.7	947.7
55°	892.4	880.7	879.0	870.7	870.7
57.5°	813.7	803.7	797.0	786.9	788.6
60°	731.7	721.6	718.3	709.9	709.9
62.5°	654.7	646.3	641.3	632.9	626.2
65°	584.3	572.6	562.6	555.9	557.6
67.5°	507.3	493.9	488.9	482.2	477.2
70°	433.7	425.3	416.9	408.5	408.5
72.5°	365.0	356.6	351.6	341.6	338.2
75°	301.4	291.3	283.0	276.3	271.2
77.5°	237.8	227.7	222.7	214.3	214.3
80°	177.5	170.8	165.8	162.4	155.7
82.5°	122.2	118.9	113.9	108.8	103.8
85°	72.0	70.3	67.0	58.6	56.9
87.5°	28.5	28.5	25.1	23.4	21.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)