

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: P295902

Luminaire Tested: **24RLN-LD5-50-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P295902  
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-4000K  
Description: RLN LED 2x4 TUNABLE WHITE TROFFER  
WITH STANDARD LENS  
Light Source: (504) 80 CRI LEDS TUNED TO 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4982.0 lumens  
Efficiency: N/A  
Efficacy: 141.0 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

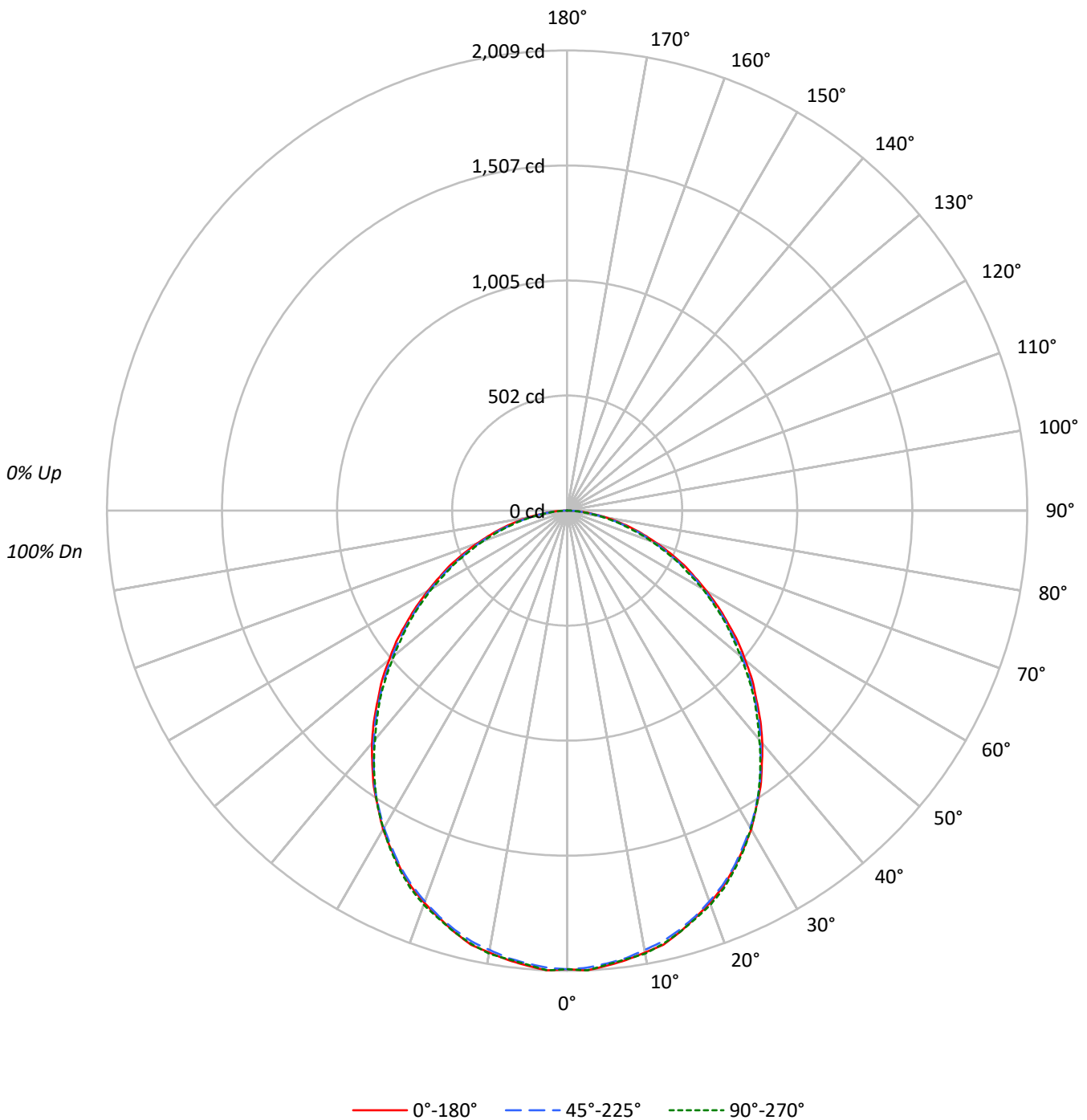
Input Watts (W): 35.34  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2694	2694	2694
5°	2694	2681	2687
10°	2677	2661	2683
15°	2653	2640	2653
20°	2610	2601	2621
25°	2558	2553	2567
30°	2497	2485	2492
35°	2418	2408	2402
40°	2329	2306	2292
45°	2223	2202	2193
50°	2123	2089	2066
55°	2010	1979	1961
60°	1890	1855	1834
65°	1786	1719	1704
70°	1638	1574	1543
75°	1504	1412	1354
80°	1320	1233	1158
85°	1067	993	843



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	189.0	3.8
10°-20°	535.7	10.8
20°-30°	792.4	15.9
30°-40°	914.5	18.4
40°-50°	893.2	17.9
50°-60°	754.2	15.1
60°-70°	537.2	10.8
70°-80°	290.9	5.8
80°-90°	75.0	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°	1517.0	30.4
0°-40°	2431.5	48.8
0°-60°	4078.8	81.9
0°-90°	4982.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4982.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2003	2003	2003	2003	2003	
5°	1995	1995	1985	1990	1990	189
15°	1905	1896	1895	1903	1905	536
25°	1723	1713	1720	1726	1729	793
35°	1472	1461	1466	1461	1463	919
45°	1168	1159	1157	1152	1152	904
55°	857	845	844	836	836	768
65°	561	550	540	534	535	553
75°	289	280	272	265	260	306
85°	69	68	64	56	55	81
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2002.6	2002.6	2002.6	2002.6	2002.6
2.5°	2009.1	2001.0	1997.8	1999.4	2009.1
5°	1994.6	1994.6	1984.9	1989.8	1989.8
7.5°	1978.5	1980.1	1970.5	1978.5	1975.3
10°	1959.2	1954.4	1948.0	1960.8	1964.0
12.5°	1941.5	1930.3	1927.1	1935.1	1936.7
15°	1904.6	1896.5	1894.9	1903.0	1904.6
17.5°	1862.8	1864.4	1858.0	1869.2	1867.6
20°	1822.6	1819.4	1816.2	1829.0	1830.6
22.5°	1777.6	1768.0	1771.2	1782.4	1785.6
25°	1723.0	1713.3	1719.7	1726.2	1729.4
27.5°	1665.1	1660.3	1658.7	1666.7	1669.9
30°	1607.2	1599.2	1599.2	1608.8	1604.0
32.5°	1536.5	1530.1	1533.3	1536.5	1538.1
35°	1472.2	1461.0	1465.8	1461.0	1462.6
37.5°	1396.7	1388.7	1387.0	1385.4	1385.4
40°	1326.0	1319.5	1313.1	1313.1	1305.1
42.5°	1248.8	1240.8	1237.6	1232.8	1227.9
45°	1168.5	1158.8	1157.2	1152.4	1152.4
47.5°	1096.1	1081.7	1080.1	1070.4	1070.4
50°	1014.2	1004.5	998.1	991.7	986.8
52.5°	940.2	930.6	920.9	914.5	909.7
55°	856.7	845.4	843.8	835.8	835.8
57.5°	781.1	771.5	765.0	755.4	757.0
60°	702.4	692.7	689.5	681.5	681.5
62.5°	628.4	620.4	615.6	607.5	601.1
65°	560.9	549.7	540.0	533.6	535.2
67.5°	487.0	474.1	469.3	462.9	458.1
70°	416.3	408.2	400.2	392.2	392.2
72.5°	350.4	342.3	337.5	327.9	324.7
75°	289.3	279.7	271.6	265.2	260.4
77.5°	228.2	218.6	213.8	205.7	205.7
80°	170.4	163.9	159.1	155.9	149.5
82.5°	117.3	114.1	109.3	104.5	99.6
85°	69.1	67.5	64.3	56.3	54.6
87.5°	27.3	27.3	24.1	22.5	20.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)