

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: P295901

Luminaire Tested: **24RLN-LD5-50-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P295901  
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-3500K  
Description: RLN LED 2x4 TUNABLE WHITE TROFFER  
WITH STANDARD LENS  
Light Source: (504) 80 CRI LEDS TUNED TO 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4875.0 lumens  
Efficiency: N/A  
Efficacy: 138.7 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

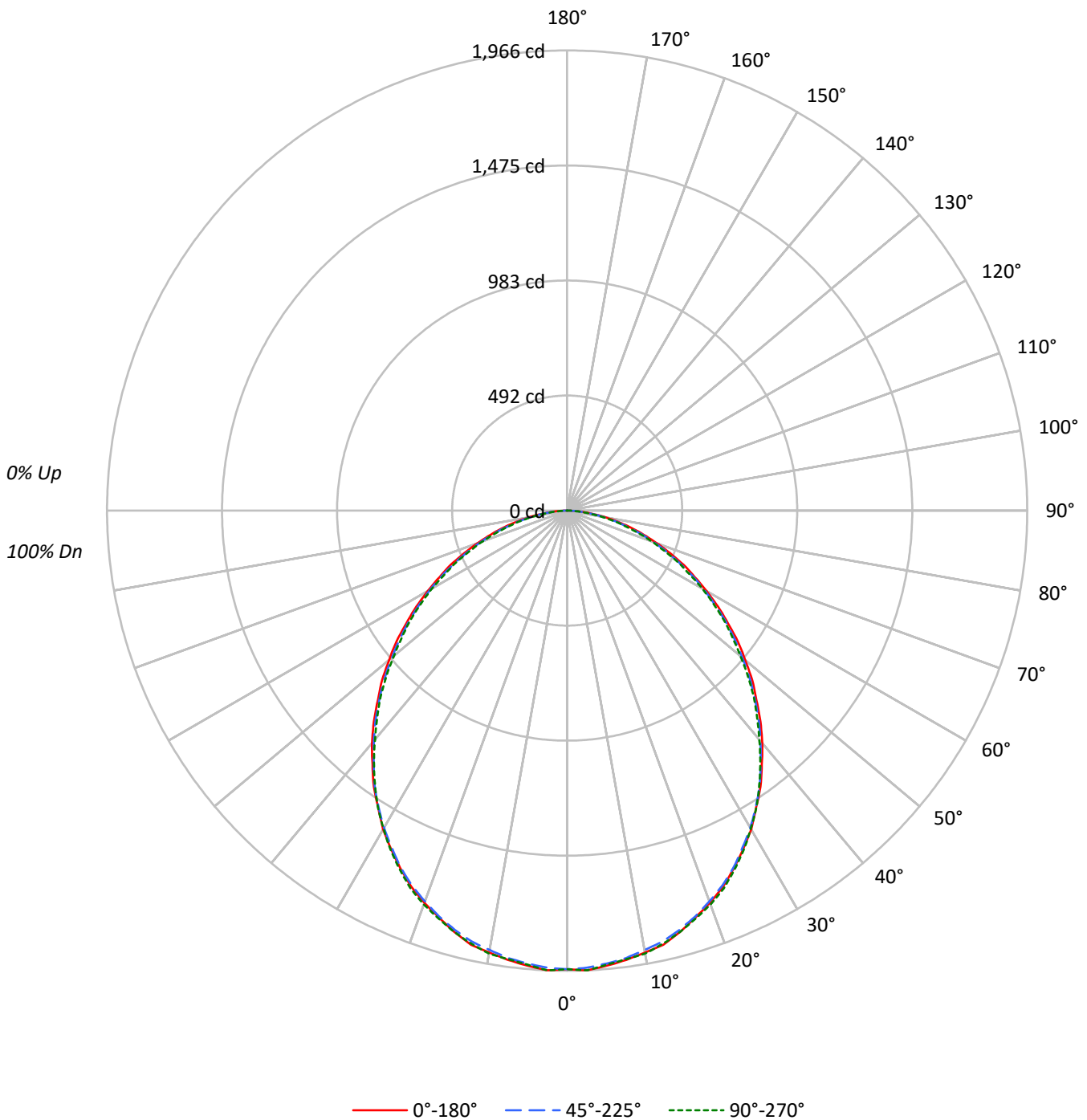
Input Watts (W): 35.154  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2637	2637	2637
5°	2636	2623	2630
10°	2619	2604	2626
15°	2596	2583	2596
20°	2554	2545	2565
25°	2503	2498	2512
30°	2443	2431	2439
35°	2366	2356	2351
40°	2279	2257	2243
45°	2176	2155	2146
50°	2077	2044	2021
55°	1966	1937	1918
60°	1850	1816	1794
65°	1748	1682	1667
70°	1602	1541	1509
75°	1472	1382	1325
80°	1292	1206	1134
85°	1044	971	826



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	184.9	3.8
10°-20°	524.2	10.8
20°-30°	775.3	15.9
30°-40°	894.8	18.4
40°-50°	874.0	17.9
50°-60°	738.0	15.1
60°-70°	525.7	10.8
70°-80°	284.6	5.8
80°-90°	73.4	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°	1484.4	30.4
0°-40°	2379.3	48.8
0°-60°	3991.3	81.9
0°-90°	4875.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4875.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1960	1960	1960	1960	1960	
5°	1952	1952	1942	1947	1947	185
15°	1864	1856	1854	1862	1864	525
25°	1686	1676	1683	1689	1692	776
35°	1441	1430	1434	1430	1431	899
45°	1143	1134	1132	1128	1128	884
55°	838	827	826	818	818	752
65°	549	538	528	522	524	541
75°	283	274	266	260	255	300
85°	68	66	63	55	54	80
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1959.6	1959.6	1959.6	1959.6	1959.6
2.5°	1965.9	1958.0	1954.9	1956.5	1965.9
5°	1951.7	1951.7	1942.3	1947.0	1947.0
7.5°	1936.0	1937.6	1928.2	1936.0	1932.9
10°	1917.1	1912.4	1906.1	1918.7	1921.9
12.5°	1899.8	1888.8	1885.7	1893.6	1895.1
15°	1863.7	1855.8	1854.2	1862.1	1863.7
17.5°	1822.8	1824.4	1818.1	1829.1	1827.5
20°	1783.5	1780.3	1777.2	1789.8	1791.3
22.5°	1739.4	1730.0	1733.1	1744.1	1747.3
25°	1686.0	1676.5	1682.8	1689.1	1692.2
27.5°	1629.3	1624.6	1623.0	1630.9	1634.1
30°	1572.7	1564.9	1564.9	1574.3	1569.6
32.5°	1503.5	1497.2	1500.4	1503.5	1505.1
35°	1440.6	1429.6	1434.3	1429.6	1431.2
37.5°	1366.7	1358.8	1357.3	1355.7	1355.7
40°	1297.5	1291.2	1284.9	1284.9	1277.1
42.5°	1222.0	1214.1	1211.0	1206.3	1201.6
45°	1143.4	1133.9	1132.4	1127.6	1127.6
47.5°	1072.6	1058.4	1056.9	1047.4	1047.4
50°	992.4	983.0	976.7	970.4	965.7
52.5°	920.0	910.6	901.2	894.9	890.2
55°	838.3	827.3	825.7	817.8	817.8
57.5°	764.3	754.9	748.6	739.2	740.8
60°	687.3	677.8	674.7	666.8	666.8
62.5°	614.9	607.1	602.4	594.5	588.2
65°	548.9	537.9	528.4	522.1	523.7
67.5°	476.5	464.0	459.2	452.9	448.2
70°	407.3	399.5	391.6	383.7	383.7
72.5°	342.9	335.0	330.3	320.8	317.7
75°	283.1	273.7	265.8	259.5	254.8
77.5°	223.3	213.9	209.2	201.3	201.3
80°	166.7	160.4	155.7	152.6	146.3
82.5°	114.8	111.7	106.9	102.2	97.5
85°	67.6	66.1	62.9	55.0	53.5
87.5°	26.7	26.7	23.6	22.0	20.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)