

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: P296185

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P296185  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P36059-R2)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24RLN-LD5-50-RDP-UNV-L82765-W2A1-U-5500K  
Description: RLN LED 2x4 TUNABLE WHITE TROFFER  
WITH RDP LENS  
Light Source: (504) 80 CRI LEDS TUNED TO 5500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4303.0 lumens  
Efficiency: N/A  
Efficacy: 119.6 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.3 / 1.38  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

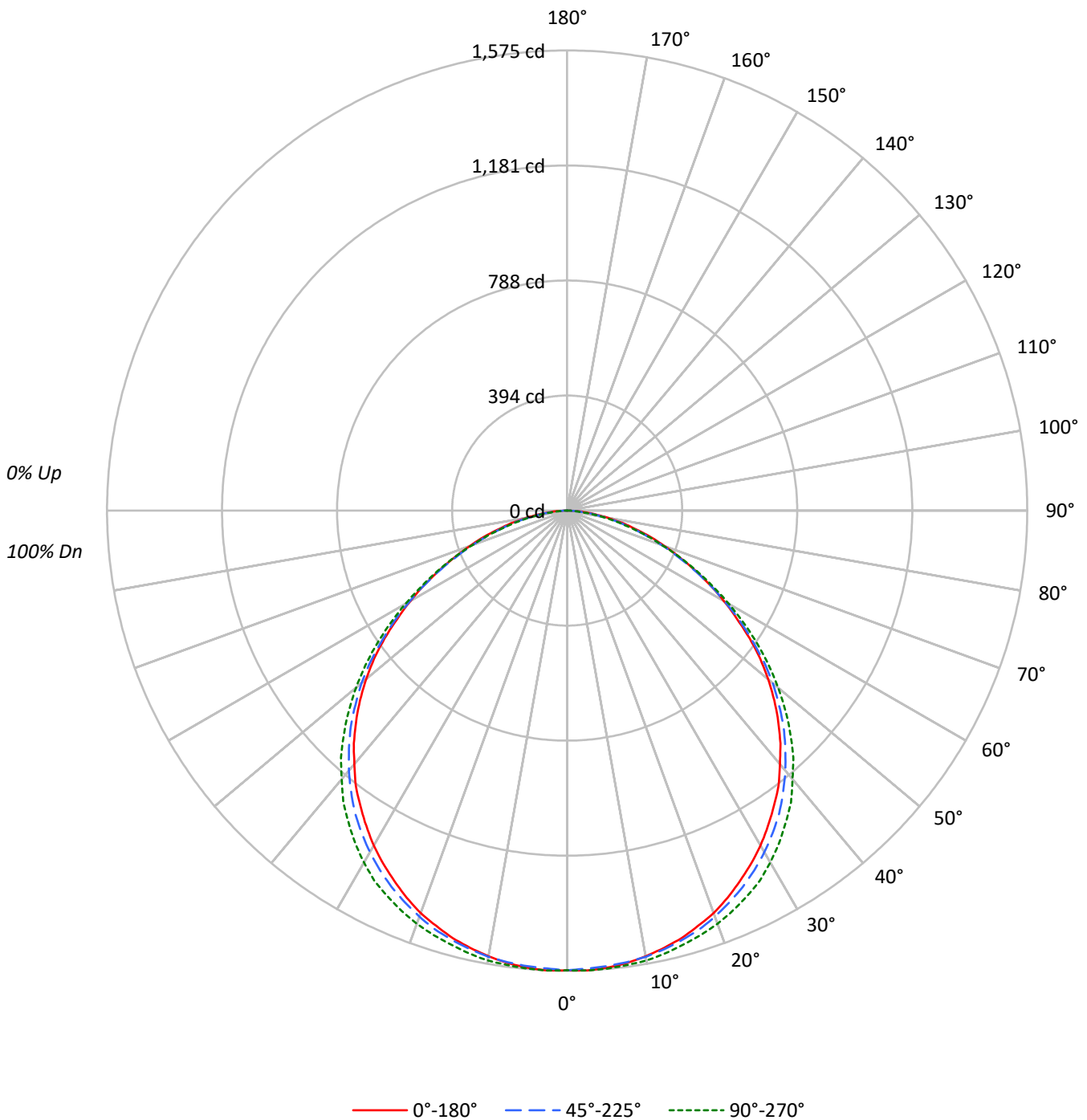
Input Watts (W): 35.991  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	73	71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	66	63	60
4	83	72	63	57	81	70	62	56	68	61	55	66	60	55	63	58	54	52
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42	53	47	42	52	46	41	39
7	66	52	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37	35
8	61	48	39	34	60	47	39	34	46	39	33	45	38	33	43	37	33	31
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	27	52	40	33	27	39	32	27	38	32	27	37	31	27	25

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	2117	2117	2117
5°	2121	2114	2125
10°	2116	2119	2137
15°	2110	2119	2142
20°	2099	2118	2155
25°	2077	2111	2162
30°	2057	2097	2161
35°	2027	2078	2142
40°	1990	2041	2107
45°	1944	1994	2056
50°	1879	1924	1975
55°	1788	1811	1865
60°	1669	1678	1722
65°	1533	1523	1559
70°	1393	1355	1362
75°	1239	1171	1162
80°	1075	962	936
85°	881	681	530



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	149.2	3.5
10°-20°	430.2	10.0
20°-30°	656.7	15.3
30°-40°	791.7	18.4
40°-50°	807.4	18.8
50°-60°	691.0	16.1
60°-70°	476.0	11.1
70°-80°	244.0	5.7
80°-90°	56.8	1.3
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°	1236.2	28.7
0°-40°	2027.9	47.1
0°-60°	3526.2	81.9
0°-90°	4303.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4303.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1574	1574	1574	1574	1574	
5°	1570	1567	1566	1570	1574	149
15°	1515	1513	1521	1533	1538	427
25°	1399	1404	1422	1446	1456	645
35°	1234	1239	1265	1293	1304	772
45°	1022	1024	1048	1074	1081	787
55°	762	757	772	788	795	680
65°	482	470	478	482	490	479
75°	238	228	225	225	224	257
85°	57	51	44	39	34	66
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1573.6	1573.6	1573.6	1573.6	1573.6
2.5°	1575.3	1572.0	1568.7	1572.0	1575.3
5°	1570.4	1567.1	1565.5	1570.4	1573.6
7.5°	1562.2	1558.9	1558.9	1565.5	1568.7
10°	1549.1	1547.5	1550.8	1557.3	1563.8
12.5°	1532.8	1532.8	1537.7	1545.9	1552.4
15°	1514.9	1513.2	1521.4	1532.8	1537.7
17.5°	1490.4	1492.0	1503.4	1516.5	1523.0
20°	1465.9	1467.5	1478.9	1496.9	1505.1
22.5°	1434.9	1438.1	1451.2	1474.0	1482.2
25°	1399.0	1403.9	1421.8	1446.3	1456.1
27.5°	1363.0	1367.9	1387.5	1415.3	1428.3
30°	1323.9	1330.4	1350.0	1379.4	1390.8
32.5°	1279.8	1284.7	1309.2	1338.6	1350.0
35°	1234.1	1239.0	1265.1	1292.9	1304.3
37.5°	1188.4	1188.4	1214.5	1247.1	1258.6
40°	1132.9	1134.5	1162.3	1193.3	1199.8
42.5°	1080.6	1080.6	1105.1	1134.5	1145.9
45°	1021.9	1023.5	1048.0	1074.1	1080.6
47.5°	961.5	961.5	982.7	1007.2	1013.7
50°	897.8	894.5	919.0	938.6	943.5
52.5°	832.5	827.6	847.2	863.5	870.1
55°	762.3	757.4	772.1	788.4	795.0
57.5°	688.9	682.3	698.7	713.4	716.6
60°	620.3	610.5	623.6	631.7	639.9
62.5°	551.7	540.3	550.1	555.0	561.5
65°	481.6	470.1	478.3	481.6	489.7
67.5°	414.6	406.5	408.1	413.0	416.3
70°	354.2	344.4	344.4	344.4	346.1
72.5°	298.7	284.0	282.4	284.0	284.0
75°	238.3	228.5	225.3	225.3	223.6
77.5°	191.0	177.9	176.3	173.0	169.8
80°	138.8	127.3	124.1	122.4	120.8
82.5°	96.3	86.5	83.3	80.0	75.1
85°	57.1	50.6	44.1	39.2	34.3
87.5°	21.2	19.6	16.3	14.7	14.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)