

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: P295979

Luminaire Tested: **24RLN-LD5-55-UNV-L93050-W2A1-U-3500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P295979  
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-LD5-55-UNV-L93050-W2A1-U-3500K  
Description: RLN LED 2x4 TUNABLE WHITE TROFFER  
WITH STANDARD LENS  
Light Source: (504) 90 CRI LEDS TUNED TO 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4717.0 lumens  
Efficiency: N/A  
Efficacy: 120.8 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

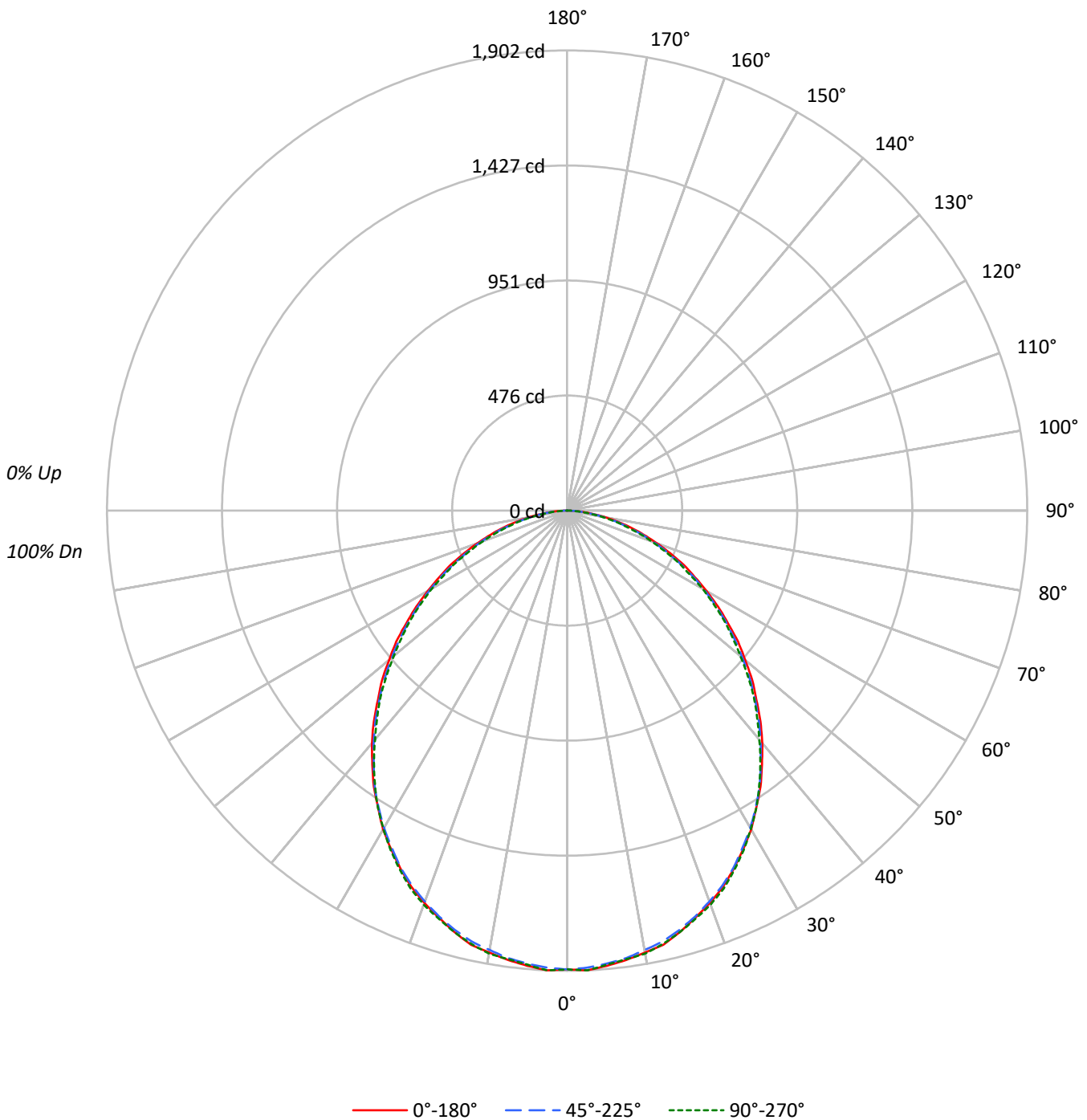
Input Watts (W): 39.06  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2551	2551	2551
5°	2551	2538	2544
10°	2534	2520	2541
15°	2512	2499	2512
20°	2471	2462	2482
25°	2422	2417	2431
30°	2364	2352	2360
35°	2290	2280	2275
40°	2205	2184	2170
45°	2105	2085	2076
50°	2010	1978	1956
55°	1903	1874	1856
60°	1790	1757	1736
65°	1691	1628	1613
70°	1550	1491	1461
75°	1424	1337	1281
80°	1250	1168	1096
85°	1010	940	798



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	178.9	3.8
10°-20°	507.2	10.8
20°-30°	750.2	15.9
30°-40°	865.8	18.4
40°-50°	845.7	17.9
50°-60°	714.1	15.1
60°-70°	508.6	10.8
70°-80°	275.4	5.8
80°-90°	71.1	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°	1436.3	30.4
0°-40°	2302.1	48.8
0°-60°	3861.9	81.9
0°-90°	4717.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4717.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1896	1896	1896	1896	1896	
5°	1888	1888	1879	1884	1884	179
15°	1803	1796	1794	1802	1803	508
25°	1631	1622	1628	1634	1637	751
35°	1394	1383	1388	1383	1385	870
45°	1106	1097	1096	1091	1091	855
55°	811	800	799	791	791	727
65°	531	520	511	505	507	524
75°	274	265	257	251	246	290
85°	65	64	61	53	52	77
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1896.1	1896.1	1896.1	1896.1	1896.1
2.5°	1902.2	1894.6	1891.5	1893.1	1902.2
5°	1888.5	1888.5	1879.4	1883.9	1883.9
7.5°	1873.3	1874.8	1865.7	1873.3	1870.2
10°	1855.0	1850.4	1844.4	1856.5	1859.6
12.5°	1838.3	1827.6	1824.6	1832.2	1833.7
15°	1803.3	1795.7	1794.1	1801.8	1803.3
17.5°	1763.7	1765.2	1759.1	1769.8	1768.3
20°	1725.7	1722.6	1719.6	1731.8	1733.3
22.5°	1683.1	1673.9	1677.0	1687.6	1690.7
25°	1631.3	1622.2	1628.3	1634.4	1637.4
27.5°	1576.5	1572.0	1570.4	1578.1	1581.1
30°	1521.7	1514.1	1514.1	1523.3	1518.7
32.5°	1454.8	1448.7	1451.7	1454.8	1456.3
35°	1393.9	1383.3	1387.8	1383.3	1384.8
37.5°	1322.4	1314.8	1313.3	1311.7	1311.7
40°	1255.4	1249.4	1243.3	1243.3	1235.7
42.5°	1182.4	1174.8	1171.7	1167.2	1162.6
45°	1106.3	1097.2	1095.7	1091.1	1091.1
47.5°	1037.8	1024.1	1022.6	1013.5	1013.5
50°	960.2	951.1	945.0	938.9	934.4
52.5°	890.2	881.1	872.0	865.9	861.3
55°	811.1	800.4	798.9	791.3	791.3
57.5°	739.6	730.4	724.4	715.2	716.7
60°	665.0	655.9	652.8	645.2	645.2
62.5°	595.0	587.4	582.8	575.2	569.1
65°	531.1	520.4	511.3	505.2	506.7
67.5°	461.1	448.9	444.4	438.3	433.7
70°	394.1	386.5	378.9	371.3	371.3
72.5°	331.7	324.1	319.6	310.4	307.4
75°	273.9	264.8	257.2	251.1	246.5
77.5°	216.1	207.0	202.4	194.8	194.8
80°	161.3	155.2	150.7	147.6	141.5
82.5°	111.1	108.0	103.5	98.9	94.3
85°	65.4	63.9	60.9	53.3	51.7
87.5°	25.9	25.9	22.8	21.3	19.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)