

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: P296044

Luminaire Tested: **24RLN-LD5-50-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P296044  
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-L92765-W2A1-U-5000K  
Description: RLN LED 2x4 TUNABLE WHITE TROFFER  
WITH STANDARD LENS  
Light Source: (504) 90 CRI LEDS TUNED TO 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4614.0 lumens  
Efficiency: N/A  
Efficacy: 128.9 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

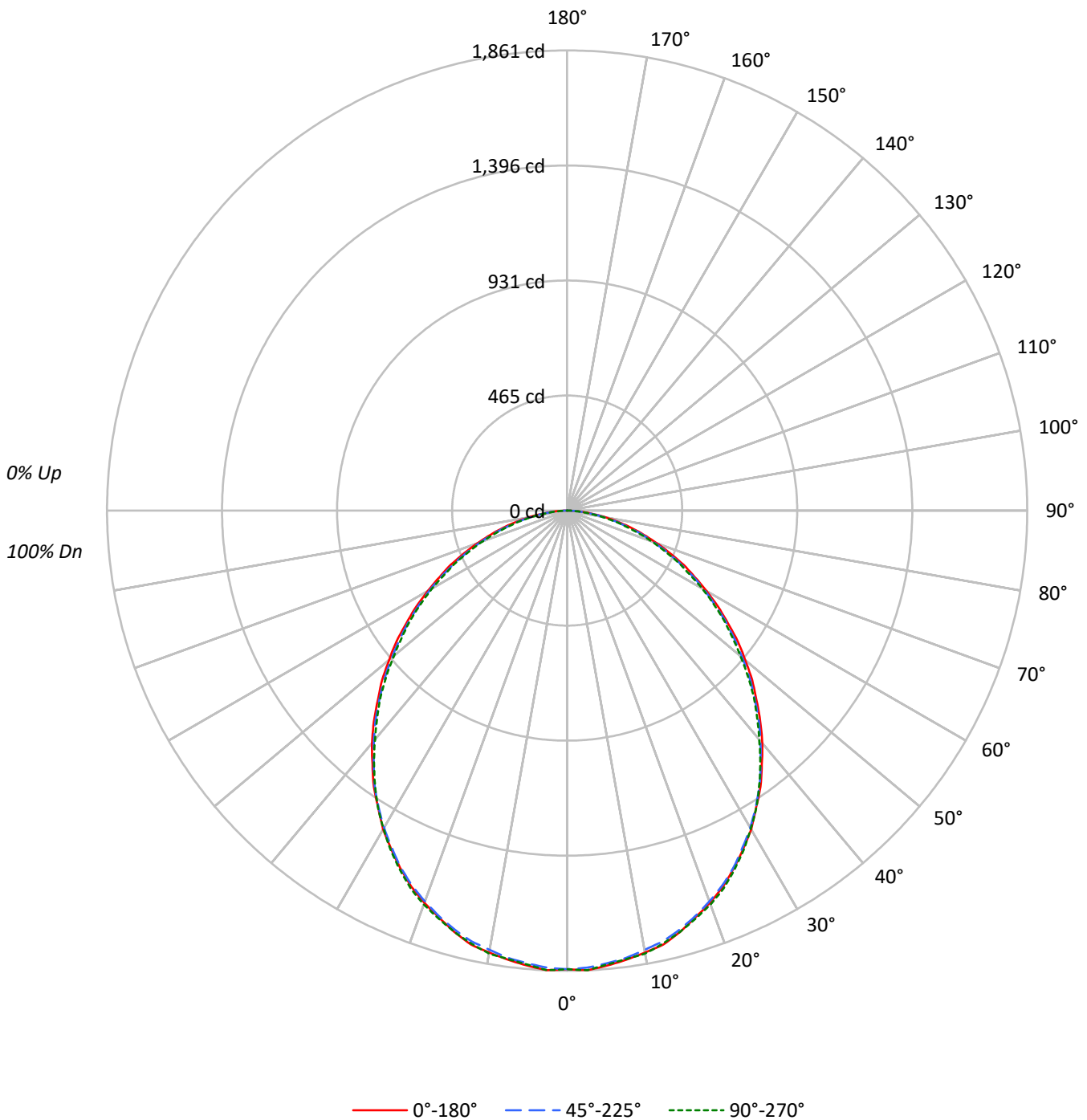
Input Watts (W): 35.805  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2495	2495	2495
5°	2495	2483	2489
10°	2479	2465	2485
15°	2457	2445	2457
20°	2417	2408	2428
25°	2369	2364	2378
30°	2313	2301	2308
35°	2240	2230	2225
40°	2157	2136	2123
45°	2059	2039	2031
50°	1966	1935	1913
55°	1861	1833	1816
60°	1750	1718	1698
65°	1654	1592	1578
70°	1517	1458	1429
75°	1393	1308	1253
80°	1223	1142	1072
85°	988	919	781



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	175.0	3.8
10°-20°	496.1	10.8
20°-30°	733.8	15.9
30°-40°	846.9	18.4
40°-50°	827.2	17.9
50°-60°	698.5	15.1
60°-70°	497.5	10.8
70°-80°	269.4	5.8
80°-90°	69.5	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°	1404.9	30.4
0°-40°	2251.9	48.8
0°-60°	3777.6	81.9
0°-90°	4614.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4614.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1855	1855	1855	1855	1855	
5°	1847	1847	1838	1843	1843	175
15°	1764	1756	1755	1762	1764	497
25°	1596	1587	1593	1599	1602	735
35°	1364	1353	1358	1353	1355	851
45°	1082	1073	1072	1067	1067	837
55°	793	783	782	774	774	711
65°	520	509	500	494	496	512
75°	268	259	252	246	241	284
85°	64	62	60	52	51	75
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1854.7	1854.7	1854.7	1854.7	1854.7
2.5°	1860.7	1853.2	1850.2	1851.7	1860.7
5°	1847.3	1847.3	1838.3	1842.8	1842.8
7.5°	1832.4	1833.9	1824.9	1832.4	1829.4
10°	1814.5	1810.0	1804.1	1816.0	1819.0
12.5°	1798.1	1787.7	1784.7	1792.2	1793.7
15°	1763.9	1756.5	1755.0	1762.4	1763.9
17.5°	1725.2	1726.7	1720.7	1731.1	1729.7
20°	1688.0	1685.0	1682.0	1693.9	1695.4
22.5°	1646.3	1637.4	1640.3	1650.8	1653.7
25°	1595.7	1586.8	1592.7	1598.7	1601.6
27.5°	1542.1	1537.6	1536.2	1543.6	1546.6
30°	1488.5	1481.1	1481.1	1490.0	1485.5
32.5°	1423.0	1417.1	1420.0	1423.0	1424.5
35°	1363.5	1353.1	1357.5	1353.1	1354.6
37.5°	1293.5	1286.1	1284.6	1283.1	1283.1
40°	1228.0	1222.1	1216.1	1216.1	1208.7
42.5°	1156.6	1149.1	1146.2	1141.7	1137.2
45°	1082.2	1073.2	1071.7	1067.3	1067.3
47.5°	1015.2	1001.8	1000.3	991.4	991.4
50°	939.3	930.3	924.4	918.4	914.0
52.5°	870.8	861.9	852.9	847.0	842.5
55°	793.4	783.0	781.5	774.0	774.0
57.5°	723.4	714.5	708.5	699.6	701.1
60°	650.5	641.6	638.6	631.1	631.1
62.5°	582.0	574.6	570.1	562.7	556.7
65°	519.5	509.1	500.1	494.2	495.7
67.5°	451.0	439.1	434.6	428.7	424.2
70°	385.5	378.1	370.6	363.2	363.2
72.5°	324.5	317.1	312.6	303.7	300.7
75°	267.9	259.0	251.6	245.6	241.1
77.5°	211.4	202.4	198.0	190.5	190.5
80°	157.8	151.8	147.4	144.4	138.4
82.5°	108.7	105.7	101.2	96.8	92.3
85°	64.0	62.5	59.5	52.1	50.6
87.5°	25.3	25.3	22.3	20.8	19.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)