

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: P296057

Luminaire Tested: **24RLN-LD5-60-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P296057  
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-LD5-60-UNV-L92765-W2A1-U-2700K  
Description: RLN LED 2x4 TUNABLE WHITE TROFFER  
WITH STANDARD LENS  
Light Source: (504) 90 CRI LEDS TUNED TO 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4720.0 lumens  
Efficiency: N/A  
Efficacy: 109.4 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

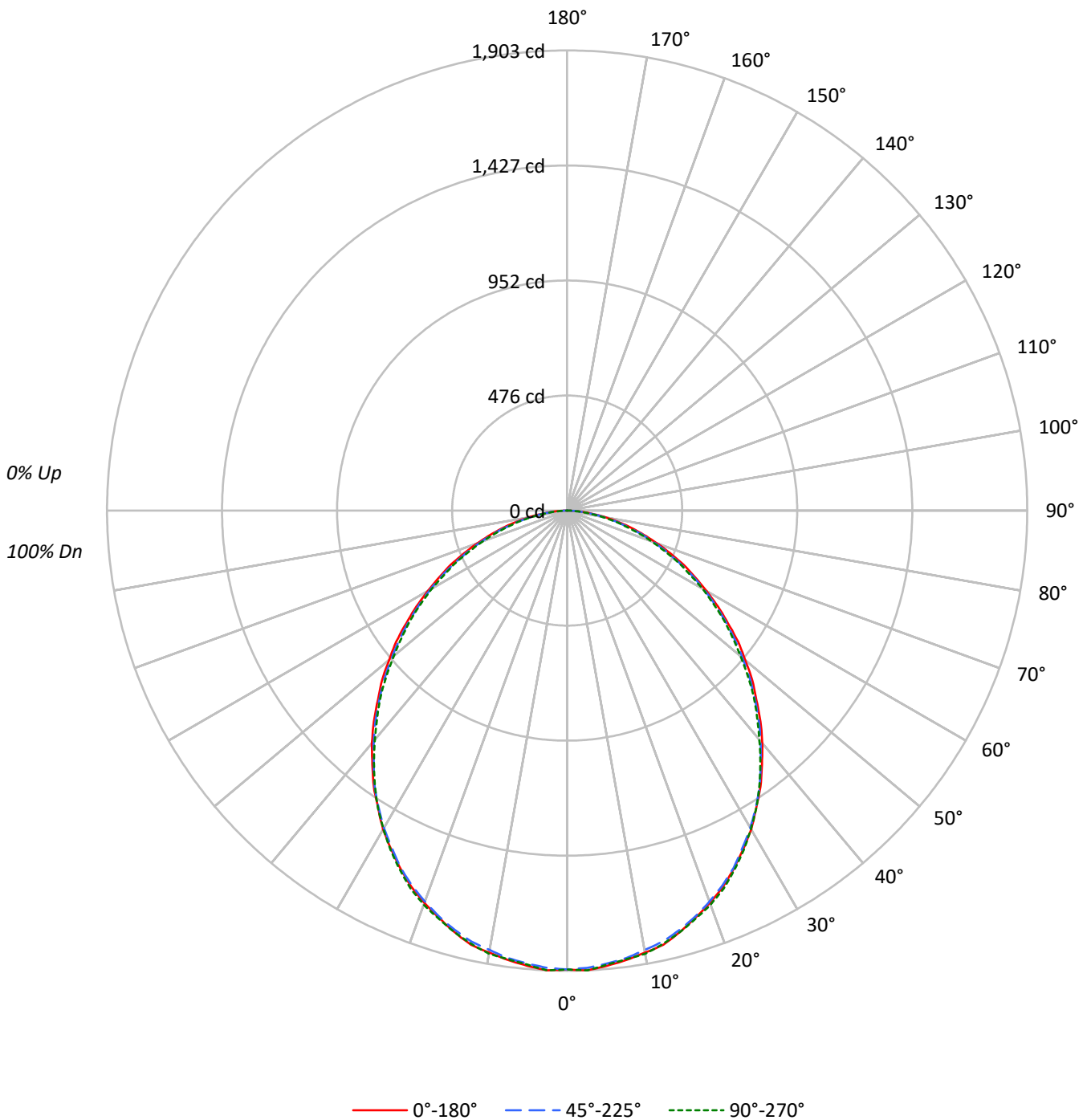
Input Watts (W): 43.152  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2553	2553	2553
5°	2552	2540	2546
10°	2536	2521	2542
15°	2513	2501	2513
20°	2473	2464	2483
25°	2423	2419	2432
30°	2366	2354	2361
35°	2291	2281	2276
40°	2206	2185	2172
45°	2106	2086	2077
50°	2011	1979	1957
55°	1904	1875	1857
60°	1791	1758	1737
65°	1692	1629	1614
70°	1552	1492	1461
75°	1425	1338	1282
80°	1251	1168	1097
85°	1011	940	800



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	179.0	3.8
10°-20°	507.5	10.8
20°-30°	750.7	15.9
30°-40°	866.4	18.4
40°-50°	846.2	17.9
50°-60°	714.5	15.1
60°-70°	509.0	10.8
70°-80°	275.6	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°	1437.2	30.4
0°-40°	2303.6	48.8
0°-60°	3864.3	81.9
0°-90°	4720.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4720.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1897	1897	1897	1897	1897	
5°	1890	1890	1881	1885	1885	179
15°	1804	1797	1795	1803	1804	508
25°	1632	1623	1629	1635	1638	752
35°	1395	1384	1389	1384	1386	870
45°	1107	1098	1096	1092	1092	856
55°	812	801	799	792	792	728
65°	531	521	512	506	507	524
75°	274	265	257	251	247	290
85°	66	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°	1897.3	1897.3	1897.3	1897.3	1897.3
2.5°	1903.4	1895.8	1892.7	1894.3	1903.4
5°	1889.7	1889.7	1880.6	1885.1	1885.1
7.5°	1874.5	1876.0	1866.9	1874.5	1871.4
10°	1856.2	1851.6	1845.5	1857.7	1860.8
12.5°	1839.4	1828.8	1825.7	1833.4	1834.9
15°	1804.4	1796.8	1795.3	1802.9	1804.4
17.5°	1764.8	1766.4	1760.3	1770.9	1769.4
20°	1726.8	1723.7	1720.7	1732.9	1734.4
22.5°	1684.1	1675.0	1678.0	1688.7	1691.7
25°	1632.4	1623.2	1629.3	1635.4	1638.4
27.5°	1577.5	1573.0	1571.4	1579.1	1582.1
30°	1522.7	1515.1	1515.1	1524.2	1519.7
32.5°	1455.7	1449.6	1452.7	1455.7	1457.2
35°	1394.8	1384.1	1388.7	1384.1	1385.7
37.5°	1323.2	1315.6	1314.1	1312.6	1312.6
40°	1256.2	1250.2	1244.1	1244.1	1236.4
42.5°	1183.2	1175.5	1172.5	1167.9	1163.4
45°	1107.0	1097.9	1096.4	1091.8	1091.8
47.5°	1038.5	1024.8	1023.3	1014.1	1014.1
50°	960.8	951.7	945.6	939.5	934.9
52.5°	890.8	881.7	872.5	866.4	861.9
55°	811.6	800.9	799.4	791.8	791.8
57.5°	740.0	730.9	724.8	715.7	717.2
60°	665.4	656.3	653.2	645.6	645.6
62.5°	595.4	587.8	583.2	575.6	569.5
65°	531.4	520.8	511.6	505.5	507.1
67.5°	461.4	449.2	444.6	438.5	434.0
70°	394.4	386.8	379.2	371.5	371.5
72.5°	332.0	324.3	319.8	310.6	307.6
75°	274.1	265.0	257.3	251.2	246.7
77.5°	216.2	207.1	202.5	194.9	194.9
80°	161.4	155.3	150.7	147.7	141.6
82.5°	111.2	108.1	103.5	99.0	94.4
85°	65.5	64.0	60.9	53.3	51.8
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)