

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: P296056

Luminaire Tested: **24RLN-LD5-55-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P296056  
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-L92765-W2A1-U-6500K  
Description: RLN LED 2x4 TUNABLE WHITE TROFFER  
WITH STANDARD LENS  
Light Source: (504) 90 CRI LEDS TUNED TO 6500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5266.0 lumens  
Efficiency: N/A  
Efficacy: 131.4 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

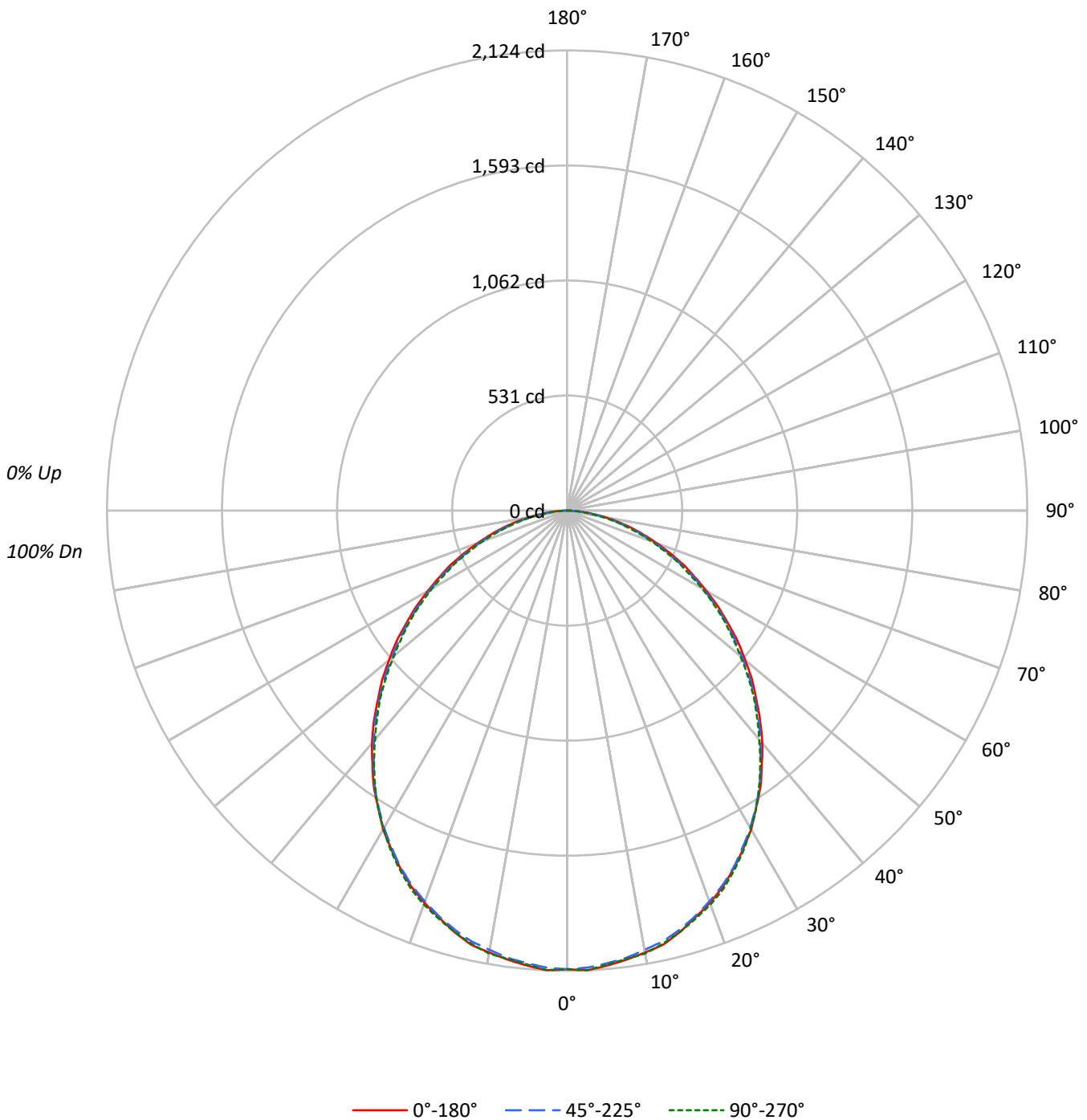
Input Watts (W): 40.083  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2848	2848	2848
5°	2848	2834	2841
10°	2829	2813	2836
15°	2804	2790	2804
20°	2758	2749	2771
25°	2704	2699	2714
30°	2639	2626	2634
35°	2556	2545	2539
40°	2462	2438	2423
45°	2350	2328	2318
50°	2244	2208	2183
55°	2124	2092	2072
60°	1998	1961	1938
65°	1888	1817	1801
70°	1731	1664	1631
75°	1590	1493	1431
80°	1395	1303	1224
85°	1129	1050	892



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	199.7	3.8
10°-20°	566.2	10.8
20°-30°	837.5	15.9
30°-40°	966.6	18.4
40°-50°	944.1	17.9
50°-60°	797.2	15.1
60°-70°	567.8	10.8
70°-80°	307.5	5.8
80°-90°	79.3	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°	1603.5	30.4
0°-40°	2570.1	48.8
0°-60°	4311.4	81.9
0°-90°	5266.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5266.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2117	2117	2117	2117	2117	
5°	2108	2108	2098	2103	2103	200
15°	2013	2005	2003	2012	2013	567
25°	1821	1811	1818	1825	1828	838
35°	1556	1544	1549	1544	1546	971
45°	1235	1225	1223	1218	1218	955
55°	906	894	892	883	883	812
65°	593	581	571	564	566	585
75°	306	296	287	280	275	324
85°	73	71	68	60	58	86
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2116.8	2116.8	2116.8	2116.8	2116.8
2.5°	2123.6	2115.1	2111.7	2113.4	2123.6
5°	2108.3	2108.3	2098.1	2103.2	2103.2
7.5°	2091.3	2093.0	2082.8	2091.3	2087.9
10°	2070.9	2065.8	2059.0	2072.6	2076.0
12.5°	2052.2	2040.3	2036.9	2045.4	2047.1
15°	2013.2	2004.7	2003.0	2011.5	2013.2
17.5°	1969.0	1970.7	1963.9	1975.8	1974.1
20°	1926.5	1923.1	1919.7	1933.3	1935.0
22.5°	1878.9	1868.7	1872.1	1884.0	1887.4
25°	1821.2	1811.0	1817.8	1824.6	1828.0
27.5°	1760.0	1754.9	1753.2	1761.7	1765.1
30°	1698.9	1690.4	1690.4	1700.6	1695.5
32.5°	1624.1	1617.3	1620.7	1624.1	1625.8
35°	1556.2	1544.3	1549.4	1544.3	1546.0
37.5°	1476.3	1467.8	1466.1	1464.4	1464.4
40°	1401.6	1394.8	1388.0	1388.0	1379.5
42.5°	1320.0	1311.5	1308.1	1303.0	1297.9
45°	1235.1	1224.9	1223.2	1218.1	1218.1
47.5°	1158.6	1143.3	1141.6	1131.4	1131.4
50°	1072.0	1061.8	1055.0	1048.2	1043.1
52.5°	993.8	983.6	973.4	966.7	961.6
55°	905.5	893.6	891.9	883.4	883.4
57.5°	825.6	815.5	808.7	798.5	800.2
60°	742.4	732.2	728.8	720.3	720.3
62.5°	664.3	655.8	650.7	642.2	635.4
65°	592.9	581.0	570.8	564.0	565.7
67.5°	514.8	501.2	496.1	489.3	484.2
70°	440.0	431.5	423.0	414.5	414.5
72.5°	370.4	361.9	356.8	346.6	343.2
75°	305.8	295.6	287.1	280.3	275.2
77.5°	241.2	231.0	225.9	217.5	217.5
80°	180.1	173.3	168.2	164.8	158.0
82.5°	124.0	120.6	115.5	110.4	105.3
85°	73.1	71.4	68.0	59.5	57.8
87.5°	28.9	28.9	25.5	23.8	22.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)