

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: P296359

Luminaire Tested: **24RLN-LD5-74-RDP-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P296359  
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-LD5-74-RDP-UNV-L92765-W2A1-U-4500K  
Description: RLN LED 2x4 TUNABLE WHITE TROFFER  
WITH RDP LENS  
Light Source: (504) 90 CRI LEDS TUNED TO 4500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5585.0 lumens  
Efficiency: N/A  
Efficacy: 99.6 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

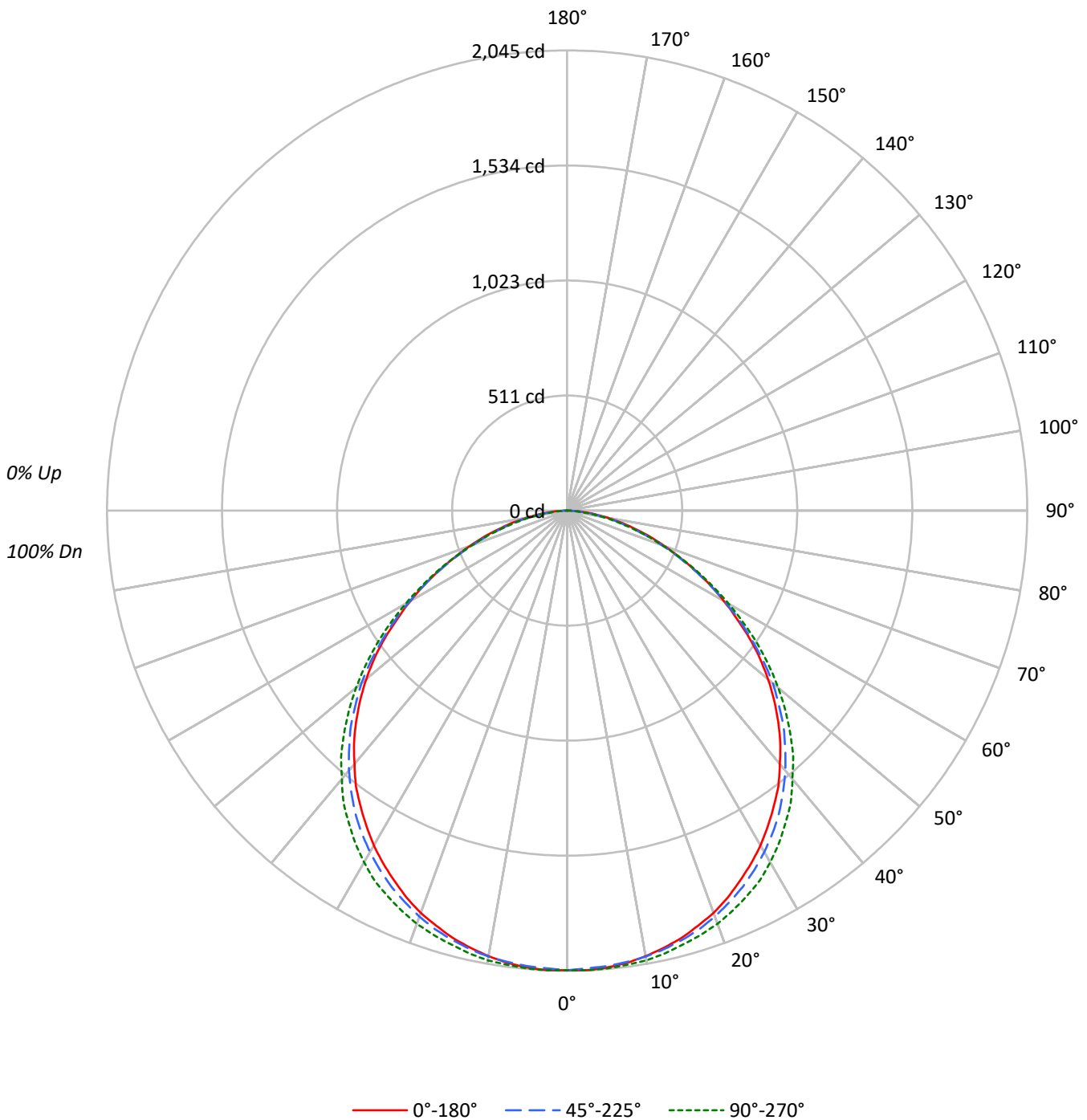
Input Watts (W): 56.079  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	2748	2748	2748
5°	2753	2744	2759
10°	2747	2750	2773
15°	2739	2751	2780
20°	2724	2749	2797
25°	2696	2740	2806
30°	2670	2722	2805
35°	2631	2697	2781
40°	2583	2650	2735
45°	2524	2588	2669
50°	2439	2497	2563
55°	2321	2351	2420
60°	2167	2178	2235
65°	1990	1976	2024
70°	1809	1759	1767
75°	1608	1520	1509
80°	1395	1247	1215
85°	1145	883	687



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	193.7	3.5
10°-20°	558.4	10.0
20°-30°	852.4	15.3
30°-40°	1027.6	18.4
40°-50°	1047.9	18.8
50°-60°	896.8	16.1
60°-70°	617.8	11.1
70°-80°	316.7	5.7
80°-90°	73.7	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°	1604.5	28.7
0°-40°	2632.1	47.1
0°-60°	4576.8	81.9
0°-90°	5585.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5585.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2042	2042	2042	2042	2042	
5°	2038	2034	2032	2038	2042	194
15°	1966	1964	1975	1990	1996	555
25°	1816	1822	1845	1877	1890	837
35°	1602	1608	1642	1678	1693	1002
45°	1326	1328	1360	1394	1403	1022
55°	989	983	1002	1023	1032	883
65°	625	610	621	625	636	621
75°	309	297	292	292	290	333
85°	74	66	57	51	44	86
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2042.5	2042.5	2042.5	2042.5	2042.5
2.5°	2044.6	2040.3	2036.1	2040.3	2044.6
5°	2038.2	2034.0	2031.9	2038.2	2042.5
7.5°	2027.6	2023.4	2023.4	2031.9	2036.1
10°	2010.7	2008.6	2012.8	2021.3	2029.7
12.5°	1989.5	1989.5	1995.8	2006.4	2014.9
15°	1966.2	1964.1	1974.7	1989.5	1995.8
17.5°	1934.4	1936.5	1951.4	1968.3	1976.8
20°	1902.6	1904.7	1919.6	1942.9	1953.5
22.5°	1862.4	1866.6	1883.6	1913.2	1923.8
25°	1815.8	1822.1	1845.4	1877.2	1889.9
27.5°	1769.1	1775.5	1800.9	1836.9	1853.9
30°	1718.3	1726.8	1752.2	1790.3	1805.2
32.5°	1661.1	1667.4	1699.2	1737.4	1752.2
35°	1601.8	1608.1	1642.0	1678.0	1692.9
37.5°	1542.4	1542.4	1576.3	1618.7	1633.5
40°	1470.4	1472.5	1508.5	1548.8	1557.3
42.5°	1402.6	1402.6	1434.4	1472.5	1487.3
45°	1326.3	1328.4	1360.2	1394.1	1402.6
47.5°	1247.9	1247.9	1275.5	1307.3	1315.7
50°	1165.3	1161.1	1192.8	1218.3	1224.6
52.5°	1080.6	1074.2	1099.6	1120.8	1129.3
55°	989.4	983.1	1002.2	1023.3	1031.8
57.5°	894.1	885.6	906.8	925.9	930.1
60°	805.1	792.4	809.4	819.9	830.5
62.5°	716.1	701.3	714.0	720.4	728.8
65°	625.0	610.2	620.8	625.0	635.6
67.5°	538.2	527.6	529.7	536.0	540.3
70°	459.8	447.1	447.1	447.1	449.2
72.5°	387.7	368.7	366.5	368.7	368.7
75°	309.3	296.6	292.4	292.4	290.3
77.5°	247.9	230.9	228.8	224.6	220.3
80°	180.1	165.3	161.0	158.9	156.8
82.5°	125.0	112.3	108.1	103.8	97.5
85°	74.2	65.7	57.2	50.8	44.5
87.5°	27.5	25.4	21.2	19.1	19.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)