

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: P296360

Luminaire Tested: **24RLN-LD5-74-RDP-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P296360  
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-5000K  
Description: RLN LED 2x4 TUNABLE WHITE TROFFER  
WITH RDP LENS  
Light Source: (504) 90 CRI LEDS TUNED TO 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5698.0 lumens  
Efficiency: N/A  
Efficacy: 101.1 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

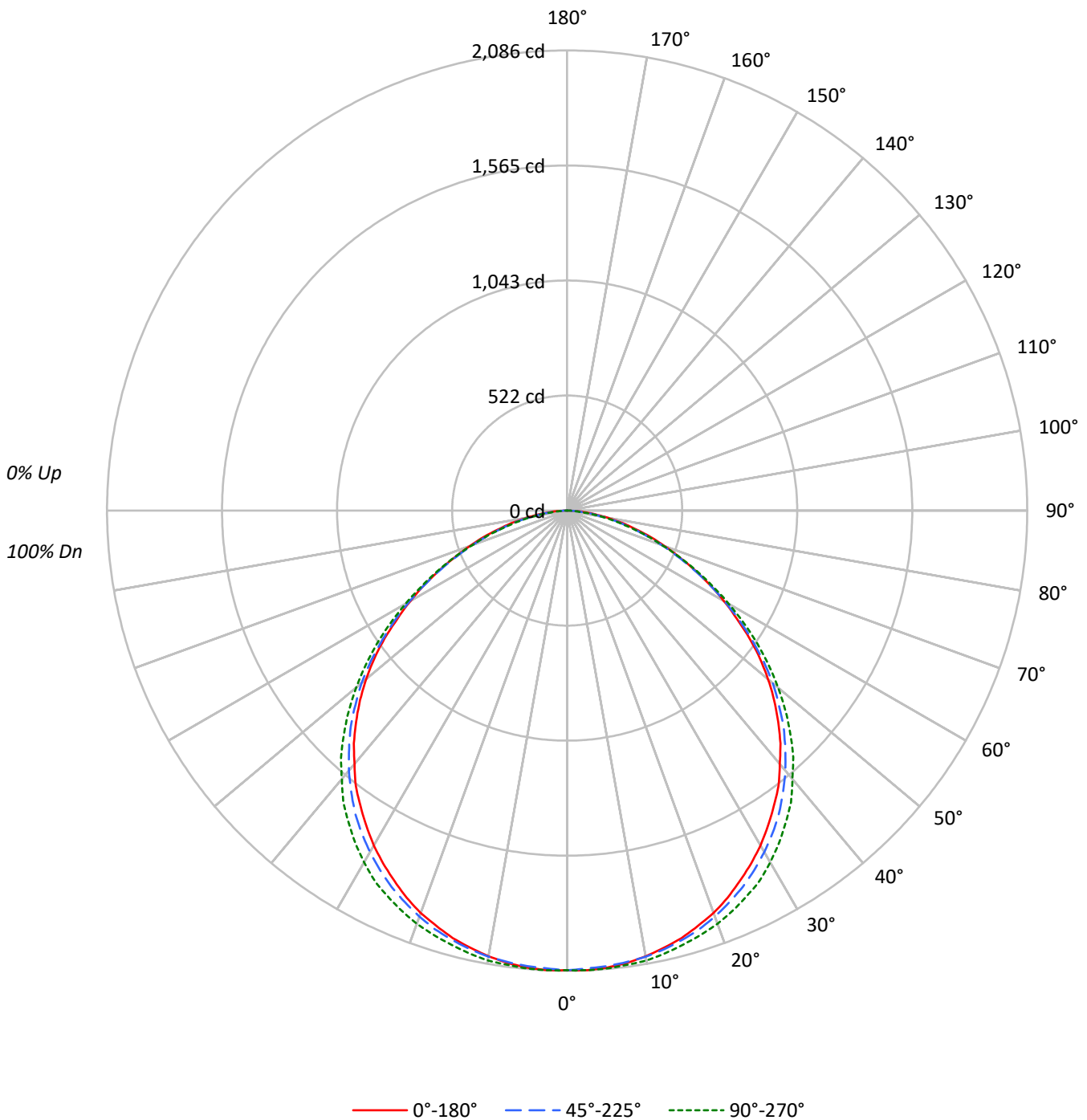
Input Watts (W): 56.358  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P296360

CATALOG NUMBER: 24RLN-LD5-74-RDP-UNV-L92765-W2A1-U-5000K

### Luminous Intensity Polar Plot





TEST NUMBER: P296360

CATALOG NUMBER: 24RLN-LD5-74-RDP-UNV-L92765-W2A1-U-5000K

**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	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	109	105	101	97	107	102	99	95	98	95	92	94	92	90	91	89	87	85					85			
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	73	71					71			
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	66	63	60					60			
4	83	72	63	57	81	70	62	56	68	61	55	66	60	55	63	58	54	52					52			
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45					45			
6	71	58	49	43	69	57	49	43	55	48	42	53	47	42	52	46	41	39					39			
7	66	52	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37	35					35			
8	61	48	39	34	60	47	39	34	46	39	33	45	38	33	43	37	33	31					31			
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28					28			
10	54	41	33	27	52	40	33	27	39	32	27	38	32	27	37	31	27	25					25			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	2804	2804	2804
5°	2809	2800	2814
10°	2803	2806	2829
15°	2794	2806	2836
20°	2779	2804	2854
25°	2750	2795	2862
30°	2724	2777	2861
35°	2684	2752	2837
40°	2635	2703	2791
45°	2575	2641	2723
50°	2489	2547	2615
55°	2368	2398	2469
60°	2210	2222	2280
65°	2030	2016	2065
70°	1845	1794	1803
75°	1641	1551	1539
80°	1423	1273	1240
85°	1169	902	701



TEST NUMBER: P296360

CATALOG NUMBER: 24RLN-LD5-74-RDP-UNV-L92765-W2A1-U-5000K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	197.6	3.5
10°-20°	569.7	10.0
20°-30°	869.6	15.3
30°-40°	1048.4	18.4
40°-50°	1069.1	18.8
50°-60°	915.0	16.1
60°-70°	630.3	11.1
70°-80°	323.1	5.7
80°-90°	75.2	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°	1637.0	28.7
0°-40°	2685.3	47.1
0°-60°	4669.4	81.9
0°-90°	5698.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5698.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2084	2084	2084	2084	2084	
5°	2080	2075	2073	2080	2084	198
15°	2006	2004	2015	2030	2036	566
25°	1852	1859	1883	1915	1928	854
35°	1634	1641	1675	1712	1727	1022
45°	1353	1355	1388	1422	1431	1043
55°	1010	1003	1022	1044	1053	901
65°	638	622	633	638	648	634
75°	316	303	298	298	296	340
85°	76	67	58	52	45	88
90°	0	0	0	0	0	



TEST NUMBER: P296360

CATALOG NUMBER: 24RLN-LD5-74-RDP-UNV-L92765-W2A1-U-5000K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2083.8	2083.8	2083.8	2083.8	2083.8
2.5°	2085.9	2081.6	2077.3	2081.6	2085.9
5°	2079.5	2075.1	2073.0	2079.5	2083.8
7.5°	2068.6	2064.3	2064.3	2073.0	2077.3
10°	2051.4	2049.2	2053.5	2062.2	2070.8
12.5°	2029.7	2029.7	2036.2	2047.0	2055.7
15°	2006.0	2003.8	2014.6	2029.7	2036.2
17.5°	1973.5	1975.7	1990.8	2008.1	2016.8
20°	1941.1	1943.3	1958.4	1982.2	1993.0
22.5°	1900.0	1904.4	1921.7	1951.9	1962.7
25°	1852.5	1859.0	1882.8	1915.2	1928.1
27.5°	1804.9	1811.4	1837.4	1874.1	1891.4
30°	1753.1	1761.7	1787.6	1826.6	1841.7
32.5°	1694.7	1701.2	1733.6	1772.5	1787.6
35°	1634.2	1640.7	1675.2	1712.0	1727.1
37.5°	1573.6	1573.6	1608.2	1651.5	1666.6
40°	1500.1	1502.3	1539.1	1580.1	1588.8
42.5°	1431.0	1431.0	1463.4	1502.3	1517.4
45°	1353.2	1355.3	1387.7	1422.3	1431.0
47.5°	1273.2	1273.2	1301.3	1333.7	1342.4
50°	1188.9	1184.6	1217.0	1242.9	1249.4
52.5°	1102.4	1095.9	1121.9	1143.5	1152.1
55°	1009.5	1003.0	1022.4	1044.1	1052.7
57.5°	912.2	903.5	925.2	944.6	948.9
60°	821.4	808.4	825.7	836.5	847.3
62.5°	730.6	715.5	728.5	734.9	743.6
65°	637.7	622.5	633.3	637.7	648.5
67.5°	549.0	538.2	540.4	546.9	551.2
70°	469.1	456.1	456.1	456.1	458.3
72.5°	395.6	376.1	374.0	376.1	376.1
75°	315.6	302.6	298.3	298.3	296.1
77.5°	252.9	235.6	233.5	229.1	224.8
80°	183.7	168.6	164.3	162.1	160.0
82.5°	127.5	114.6	110.2	105.9	99.4
85°	75.7	67.0	58.4	51.9	45.4
87.5°	28.1	25.9	21.6	19.5	19.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)