

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: P296361

Luminaire Tested: **24RLN-LD5-74-RDP-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296361
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-5500K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (504) 90 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5786.0 lumens
Efficiency: N/A
Efficacy: 102.2 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

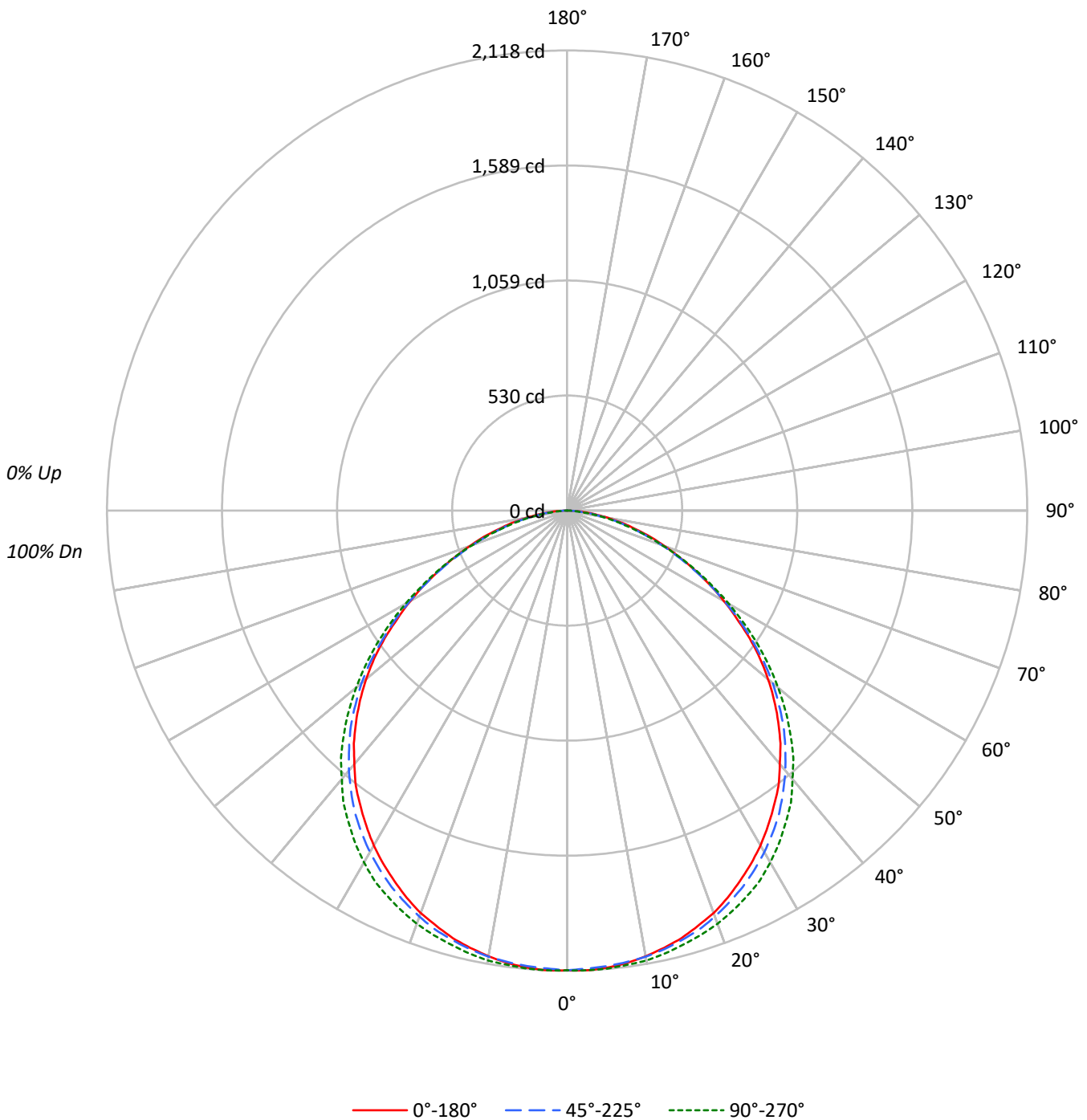
Input Watts (W): 56.637
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P296361

CATALOG NUMBER: 24RLN-LD5-74-RDP-UNV-L92765-W2A1-U-5500K

Luminous Intensity Polar Plot





TEST NUMBER: P296361

CATALOG NUMBER: 24RLN-LD5-74-RDP-UNV-L92765-W2A1-U-5500K

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	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°	2847	2847	2847
5°	2852	2843	2858
10°	2846	2849	2873
15°	2837	2850	2880
20°	2822	2847	2898
25°	2793	2838	2907
30°	2766	2820	2905
35°	2726	2794	2881
40°	2676	2745	2834
45°	2615	2681	2765
50°	2527	2587	2656
55°	2405	2435	2508
60°	2245	2256	2315
65°	2061	2047	2096
70°	1874	1822	1830
75°	1666	1575	1563
80°	1446	1292	1258
85°	1186	915	712



TEST NUMBER: P296361

CATALOG NUMBER: 24RLN-LD5-74-RDP-UNV-L92765-W2A1-U-5500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	200.7	3.5
10°-20°	578.5	10.0
20°-30°	883.0	15.3
30°-40°	1064.6	18.4
40°-50°	1085.6	18.8
50°-60°	929.1	16.1
60°-70°	640.0	11.1
70°-80°	328.1	5.7
80°-90°	76.4	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°	1662.2	28.7
0°-40°	2726.8	47.1
0°-60°	4741.5	81.9
0°-90°	5786.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5786.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2116	2116	2116	2116	2116	
5°	2112	2107	2105	2112	2116	201
15°	2037	2035	2046	2061	2068	574
25°	1881	1888	1912	1945	1958	867
35°	1659	1666	1701	1738	1754	1038
45°	1374	1376	1409	1444	1453	1059
55°	1025	1018	1038	1060	1069	914
65°	648	632	643	648	658	643
75°	320	307	303	303	301	345
85°	77	68	59	53	46	89
90°	0	0	0	0	0	



TEST NUMBER: P296361

CATALOG NUMBER: 24RLN-LD5-74-RDP-UNV-L92765-W2A1-U-5500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2116.0	2116.0	2116.0	2116.0	2116.0
2.5°	2118.2	2113.8	2109.4	2113.8	2118.2
5°	2111.6	2107.2	2105.0	2111.6	2116.0
7.5°	2100.6	2096.2	2096.2	2105.0	2109.4
10°	2083.0	2080.8	2085.2	2094.0	2102.8
12.5°	2061.1	2061.1	2067.7	2078.6	2087.4
15°	2036.9	2034.7	2045.7	2061.1	2067.7
17.5°	2004.0	2006.2	2021.6	2039.1	2047.9
20°	1971.1	1973.3	1988.7	2012.8	2023.8
22.5°	1929.4	1933.8	1951.3	1982.1	1993.0
25°	1881.1	1887.7	1911.8	1944.8	1957.9
27.5°	1832.8	1839.4	1865.7	1903.0	1920.6
30°	1780.1	1788.9	1815.2	1854.8	1870.1
32.5°	1720.9	1727.5	1760.4	1799.9	1815.2
35°	1659.4	1666.0	1701.1	1738.4	1753.8
37.5°	1597.9	1597.9	1633.1	1677.0	1692.3
40°	1523.3	1525.5	1562.8	1604.5	1613.3
42.5°	1453.1	1453.1	1486.0	1525.5	1540.9
45°	1374.1	1376.3	1409.2	1444.3	1453.1
47.5°	1292.8	1292.8	1321.4	1354.3	1363.1
50°	1207.2	1202.8	1235.8	1262.1	1268.7
52.5°	1119.4	1112.9	1139.2	1161.1	1169.9
55°	1025.1	1018.5	1038.2	1060.2	1069.0
57.5°	926.3	917.5	939.5	959.2	963.6
60°	834.1	820.9	838.5	849.5	860.4
62.5°	741.9	726.5	739.7	746.3	755.1
65°	647.5	632.2	643.1	647.5	658.5
67.5°	557.5	546.6	548.7	555.3	559.7
70°	476.3	463.1	463.1	463.1	465.3
72.5°	401.7	381.9	379.7	381.9	381.9
75°	320.5	307.3	302.9	302.9	300.7
77.5°	256.8	239.3	237.1	232.7	228.3
80°	186.6	171.2	166.8	164.6	162.4
82.5°	129.5	116.3	111.9	107.6	101.0
85°	76.8	68.0	59.3	52.7	46.1
87.5°	28.5	26.3	21.9	19.8	19.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)