

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: P296202

Luminaire Tested: **24RLN-LD5-60-RDP-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296202
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-LD5-60-RDP-UNV-L82765-W2A1-U-5000K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (504) 80 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5143.0 lumens
Efficiency: N/A
Efficacy: 116.2 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

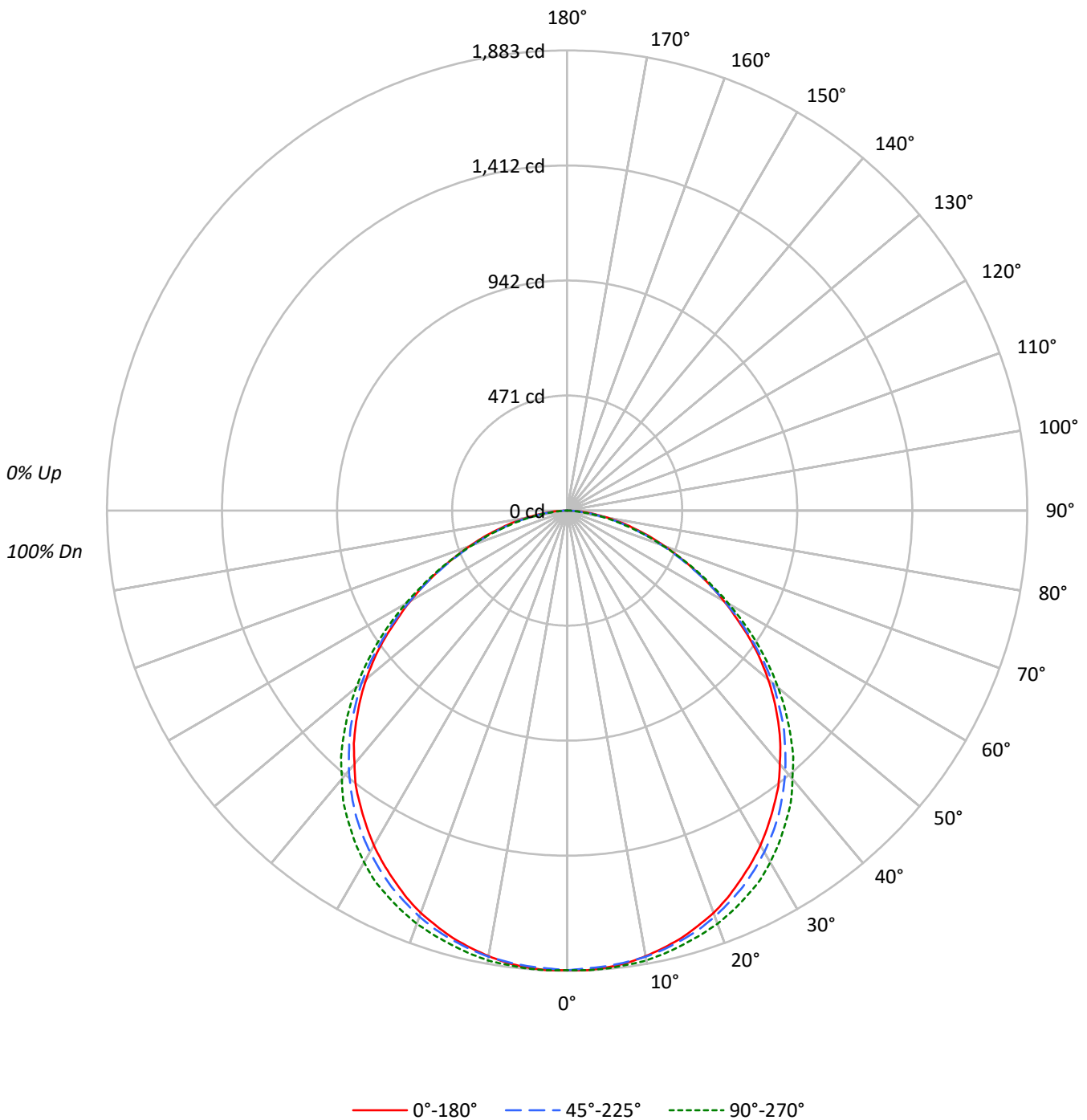
Input Watts (W): 44.268
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P296202

CATALOG NUMBER: 24RLN-LD5-60-RDP-UNV-L82765-W2A1-U-5000K

Luminous Intensity Polar Plot





TEST NUMBER: P296202

CATALOG NUMBER: 24RLN-LD5-60-RDP-UNV-L82765-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	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°	2531	2531	2531
5°	2535	2527	2540
10°	2530	2532	2554
15°	2522	2533	2560
20°	2509	2531	2576
25°	2482	2523	2584
30°	2458	2507	2583
35°	2423	2484	2561
40°	2378	2440	2519
45°	2324	2383	2458
50°	2246	2299	2361
55°	2137	2165	2229
60°	1995	2006	2058
65°	1833	1820	1863
70°	1666	1620	1627
75°	1481	1399	1390
80°	1285	1149	1119
85°	1054	814	633



TEST NUMBER: P296202

CATALOG NUMBER: 24RLN-LD5-60-RDP-UNV-L82765-W2A1-U-5000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	178.4	3.5
10°-20°	514.2	10.0
20°-30°	784.9	15.3
30°-40°	946.3	18.4
40°-50°	965.0	18.8
50°-60°	825.9	16.1
60°-70°	568.9	11.1
70°-80°	291.6	5.7
80°-90°	67.9	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°	1477.5	28.7
0°-40°	2423.8	47.1
0°-60°	4214.6	81.9
0°-90°	5143.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5143.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1881	1881	1881	1881	1881	
5°	1877	1873	1871	1877	1881	178
15°	1811	1809	1818	1832	1838	511
25°	1672	1678	1699	1729	1740	771
35°	1475	1481	1512	1545	1559	923
45°	1221	1223	1253	1284	1292	941
55°	911	905	923	942	950	813
65°	576	562	572	576	585	572
75°	285	273	269	269	267	307
85°	68	60	53	47	41	79
90°	0	0	0	0	0	



TEST NUMBER: P296202

CATALOG NUMBER: 24RLN-LD5-60-RDP-UNV-L82765-W2A1-U-5000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1880.8	1880.8	1880.8	1880.8	1880.8
2.5°	1882.8	1878.9	1875.0	1878.9	1882.8
5°	1876.9	1873.0	1871.1	1876.9	1880.8
7.5°	1867.2	1863.3	1863.3	1871.1	1875.0
10°	1851.5	1849.6	1853.5	1861.3	1869.1
12.5°	1832.0	1832.0	1837.9	1847.6	1855.5
15°	1810.6	1808.6	1818.4	1832.0	1837.9
17.5°	1781.3	1783.3	1796.9	1812.5	1820.3
20°	1752.0	1754.0	1767.7	1789.1	1798.9
22.5°	1715.0	1718.9	1734.5	1761.8	1771.6
25°	1672.1	1677.9	1699.4	1728.6	1740.3
27.5°	1629.1	1635.0	1658.4	1691.6	1707.2
30°	1582.3	1590.1	1613.5	1648.6	1662.3
32.5°	1529.6	1535.5	1564.7	1599.9	1613.5
35°	1475.0	1480.8	1512.1	1545.2	1558.9
37.5°	1420.4	1420.4	1451.6	1490.6	1504.3
40°	1354.0	1356.0	1389.1	1426.2	1434.0
42.5°	1291.6	1291.6	1320.9	1356.0	1369.6
45°	1221.4	1223.3	1252.6	1283.8	1291.6
47.5°	1149.2	1149.2	1174.5	1203.8	1211.6
50°	1073.1	1069.2	1098.4	1121.9	1127.7
52.5°	995.0	989.2	1012.6	1032.1	1039.9
55°	911.1	905.3	922.8	942.4	950.2
57.5°	823.3	815.5	835.1	852.6	856.5
60°	741.4	729.7	745.3	755.1	764.8
62.5°	659.5	645.8	657.5	663.4	671.2
65°	575.6	561.9	571.7	575.6	585.3
67.5°	495.6	485.8	487.8	493.6	497.5
70°	423.4	411.7	411.7	411.7	413.6
72.5°	357.0	339.5	337.5	339.5	339.5
75°	284.9	273.1	269.2	269.2	267.3
77.5°	228.3	212.7	210.7	206.8	202.9
80°	165.8	152.2	148.3	146.3	144.4
82.5°	115.1	103.4	99.5	95.6	89.7
85°	68.3	60.5	52.7	46.8	41.0
87.5°	25.4	23.4	19.5	17.6	17.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)