

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: P296212

Luminaire Tested: **24RLN-LD5-67-RDP-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296212
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-LD5-67-RDP-UNV-L82765-W2A1-U-5500K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (504) 80 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5774.0 lumens
Efficiency: N/A
Efficacy: 115.4 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

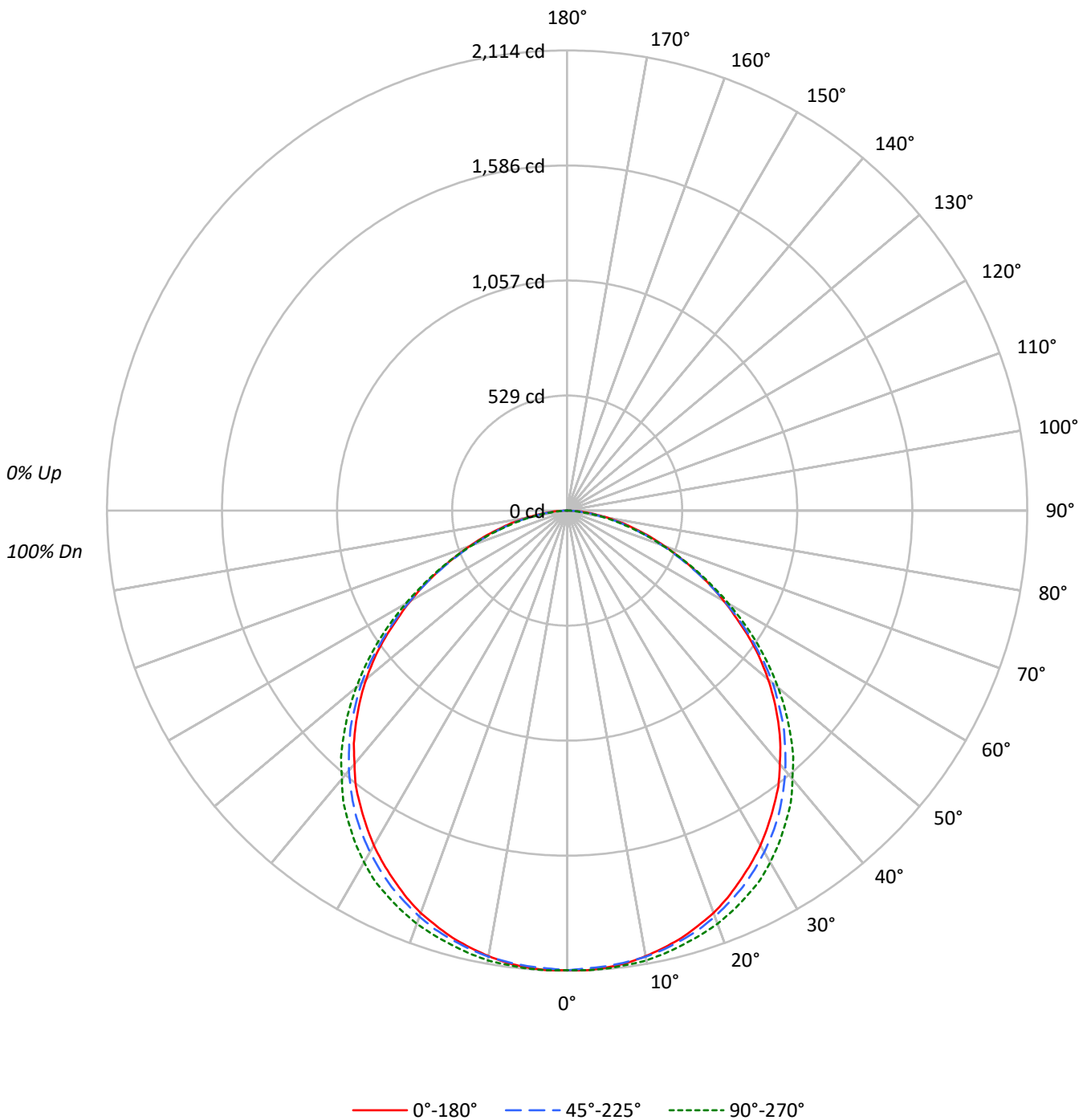
Input Watts (W): 50.034
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P296212

CATALOG NUMBER: 24RLN-LD5-67-RDP-UNV-L82765-W2A1-U-5500K

Luminous Intensity Polar Plot





TEST NUMBER: P296212

CATALOG NUMBER: 24RLN-LD5-67-RDP-UNV-L82765-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°	2841	2841	2841
5°	2846	2837	2852
10°	2840	2843	2867
15°	2831	2844	2874
20°	2816	2841	2892
25°	2787	2832	2901
30°	2760	2814	2899
35°	2720	2788	2875
40°	2670	2739	2828
45°	2609	2676	2759
50°	2522	2581	2650
55°	2400	2430	2502
60°	2240	2252	2310
65°	2057	2043	2092
70°	1870	1818	1827
75°	1663	1572	1560
80°	1443	1290	1256
85°	1184	912	710



TEST NUMBER: P296212

CATALOG NUMBER: 24RLN-LD5-67-RDP-UNV-L82765-W2A1-U-5500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	200.3	3.5
10°-20°	577.3	10.0
20°-30°	881.2	15.3
30°-40°	1062.4	18.4
40°-50°	1083.4	18.8
50°-60°	927.2	16.1
60°-70°	638.7	11.1
70°-80°	327.4	5.7
80°-90°	76.2	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°	1658.8	28.7
0°-40°	2721.2	47.1
0°-60°	4731.7	81.9
0°-90°	5774.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5774.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2112	2112	2112	2112	2112	
5°	2107	2103	2101	2107	2112	200
15°	2033	2030	2042	2057	2063	573
25°	1877	1884	1908	1941	1954	866
35°	1656	1662	1698	1735	1750	1036
45°	1371	1373	1406	1441	1450	1056
55°	1023	1016	1036	1058	1067	913
65°	646	631	642	646	657	642
75°	320	307	302	302	300	345
85°	77	68	59	53	46	89
90°	0	0	0	0	0	



TEST NUMBER: P296212

CATALOG NUMBER: 24RLN-LD5-67-RDP-UNV-L82765-W2A1-U-5500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2111.6	2111.6	2111.6	2111.6	2111.6
2.5°	2113.8	2109.4	2105.0	2109.4	2113.8
5°	2107.2	2102.8	2100.6	2107.2	2111.6
7.5°	2096.2	2091.9	2091.9	2100.6	2105.0
10°	2078.7	2076.5	2080.9	2089.7	2098.4
12.5°	2056.8	2056.8	2063.4	2074.3	2083.1
15°	2032.7	2030.5	2041.5	2056.8	2063.4
17.5°	1999.9	2002.1	2017.4	2034.9	2043.7
20°	1967.0	1969.2	1984.5	2008.6	2019.6
22.5°	1925.4	1929.8	1947.3	1978.0	1988.9
25°	1877.2	1883.8	1907.9	1940.7	1953.9
27.5°	1829.0	1835.6	1861.9	1899.1	1916.6
30°	1776.4	1785.2	1811.5	1850.9	1866.2
32.5°	1717.3	1723.9	1756.7	1796.2	1811.5
35°	1656.0	1662.5	1697.6	1734.8	1750.2
37.5°	1594.6	1594.6	1629.7	1673.5	1688.8
40°	1520.2	1522.3	1559.6	1601.2	1610.0
42.5°	1450.1	1450.1	1482.9	1522.3	1537.7
45°	1371.2	1373.4	1406.3	1441.3	1450.1
47.5°	1290.2	1290.2	1318.6	1351.5	1360.3
50°	1204.7	1200.4	1233.2	1259.5	1266.1
52.5°	1117.1	1110.5	1136.8	1158.7	1167.5
55°	1022.9	1016.4	1036.1	1058.0	1066.7
57.5°	924.4	915.6	937.5	957.2	961.6
60°	832.4	819.2	836.7	847.7	858.6
62.5°	740.4	725.0	738.2	744.7	753.5
65°	646.2	630.8	641.8	646.2	657.1
67.5°	556.4	545.4	547.6	554.2	558.6
70°	475.3	462.2	462.2	462.2	464.4
72.5°	400.8	381.1	378.9	381.1	381.1
75°	319.8	306.7	302.3	302.3	300.1
77.5°	256.3	238.8	236.6	232.2	227.8
80°	186.2	170.9	166.5	164.3	162.1
82.5°	129.2	116.1	111.7	107.3	100.8
85°	76.7	67.9	59.1	52.6	46.0
87.5°	28.5	26.3	21.9	19.7	19.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)