

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: P296210

Luminaire Tested: **24RLN-LD5-67-RDP-UNV-L82765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296210
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-4500K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (504) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5641.0 lumens
Efficiency: N/A
Efficacy: 113.8 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

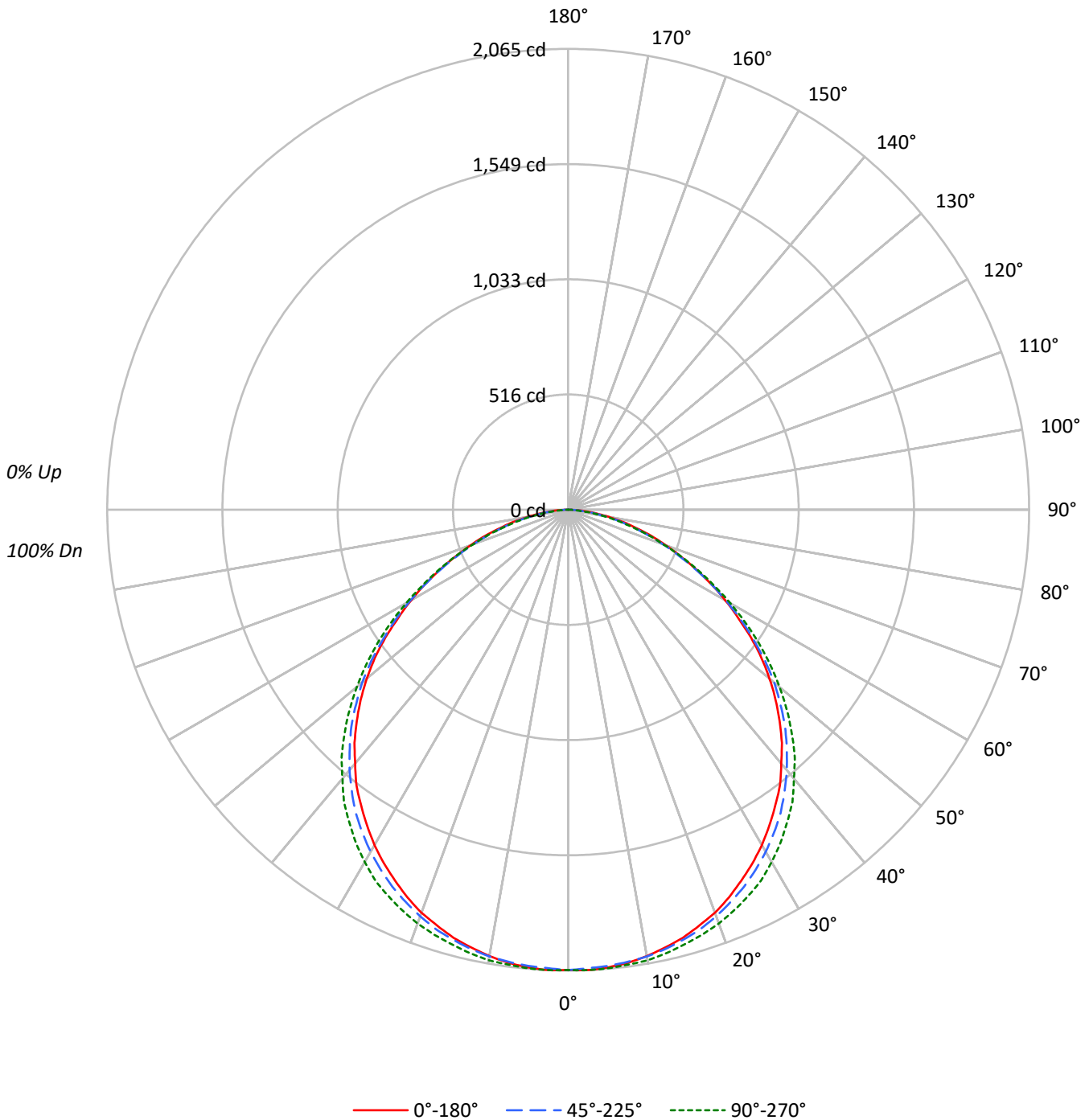
Input Watts (W): 49.569
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2776	2776	2776
5°	2781	2772	2786
10°	2775	2778	2801
15°	2766	2778	2808
20°	2752	2776	2825
25°	2723	2767	2834
30°	2696	2750	2833
35°	2657	2724	2808
40°	2608	2676	2763
45°	2549	2614	2696
50°	2464	2522	2589
55°	2344	2374	2445
60°	2188	2200	2257
65°	2010	1996	2044
70°	1827	1776	1785
75°	1624	1535	1524
80°	1409	1260	1227
85°	1156	892	693



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	195.6	3.5
10°-20°	564.0	10.0
20°-30°	860.9	15.3
30°-40°	1037.9	18.4
40°-50°	1058.4	18.8
50°-60°	905.8	16.1
60°-70°	624.0	11.1
70°-80°	319.9	5.7
80°-90°	74.5	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°	1620.6	28.7
0°-40°	2658.5	47.1
0°-60°	4622.7	81.9
0°-90°	5641.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5641.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2063	2063	2063	2063	2063	
5°	2059	2054	2052	2059	2063	196
15°	1986	1984	1994	2009	2016	560
25°	1834	1840	1864	1896	1909	846
35°	1618	1624	1658	1695	1710	1012
45°	1340	1342	1374	1408	1417	1032
55°	999	993	1012	1034	1042	892
65°	631	616	627	631	642	627
75°	312	300	295	295	293	337
85°	75	66	58	51	45	87
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2062.9	2062.9	2062.9	2062.9	2062.9
2.5°	2065.1	2060.8	2056.5	2060.8	2065.1
5°	2058.7	2054.4	2052.2	2058.7	2062.9
7.5°	2048.0	2043.7	2043.7	2052.2	2056.5
10°	2030.8	2028.7	2033.0	2041.5	2050.1
12.5°	2009.4	2009.4	2015.9	2026.6	2035.1
15°	1985.9	1983.8	1994.5	2009.4	2015.9
17.5°	1953.8	1955.9	1970.9	1988.0	1996.6
20°	1921.7	1923.8	1938.8	1962.4	1973.1
22.5°	1881.0	1885.3	1902.4	1932.4	1943.1
25°	1834.0	1840.4	1863.9	1896.0	1908.9
27.5°	1786.9	1793.3	1819.0	1855.4	1872.5
30°	1735.5	1744.1	1769.8	1808.3	1823.3
32.5°	1677.7	1684.2	1716.3	1754.8	1769.8
35°	1617.8	1624.2	1658.5	1694.9	1709.8
37.5°	1557.9	1557.9	1592.1	1634.9	1649.9
40°	1485.1	1487.3	1523.7	1564.3	1572.9
42.5°	1416.7	1416.7	1448.8	1487.3	1502.3
45°	1339.6	1341.8	1373.9	1408.1	1416.7
47.5°	1260.4	1260.4	1288.3	1320.4	1328.9
50°	1177.0	1172.7	1204.8	1230.5	1236.9
52.5°	1091.4	1085.0	1110.6	1132.0	1140.6
55°	999.4	992.9	1012.2	1033.6	1042.2
57.5°	903.1	894.5	915.9	935.2	939.4
60°	813.2	800.4	817.5	828.2	838.9
62.5°	723.3	708.3	721.2	727.6	736.2
65°	631.3	616.3	627.0	631.3	642.0
67.5°	543.6	532.9	535.0	541.4	545.7
70°	464.4	451.5	451.5	451.5	453.7
72.5°	391.6	372.4	370.2	372.4	372.4
75°	312.4	299.6	295.3	295.3	293.2
77.5°	250.4	233.3	231.1	226.8	222.6
80°	181.9	166.9	162.6	160.5	158.4
82.5°	126.3	113.4	109.1	104.9	98.4
85°	74.9	66.3	57.8	51.4	44.9
87.5°	27.8	25.7	21.4	19.3	19.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)