

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: P296350

Luminaire Tested: **24RLN-LD5-67-RDP-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296350
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-L92765-W2A1-U-4500K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (504) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5032.0 lumens
Efficiency: N/A
Efficacy: 101.5 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

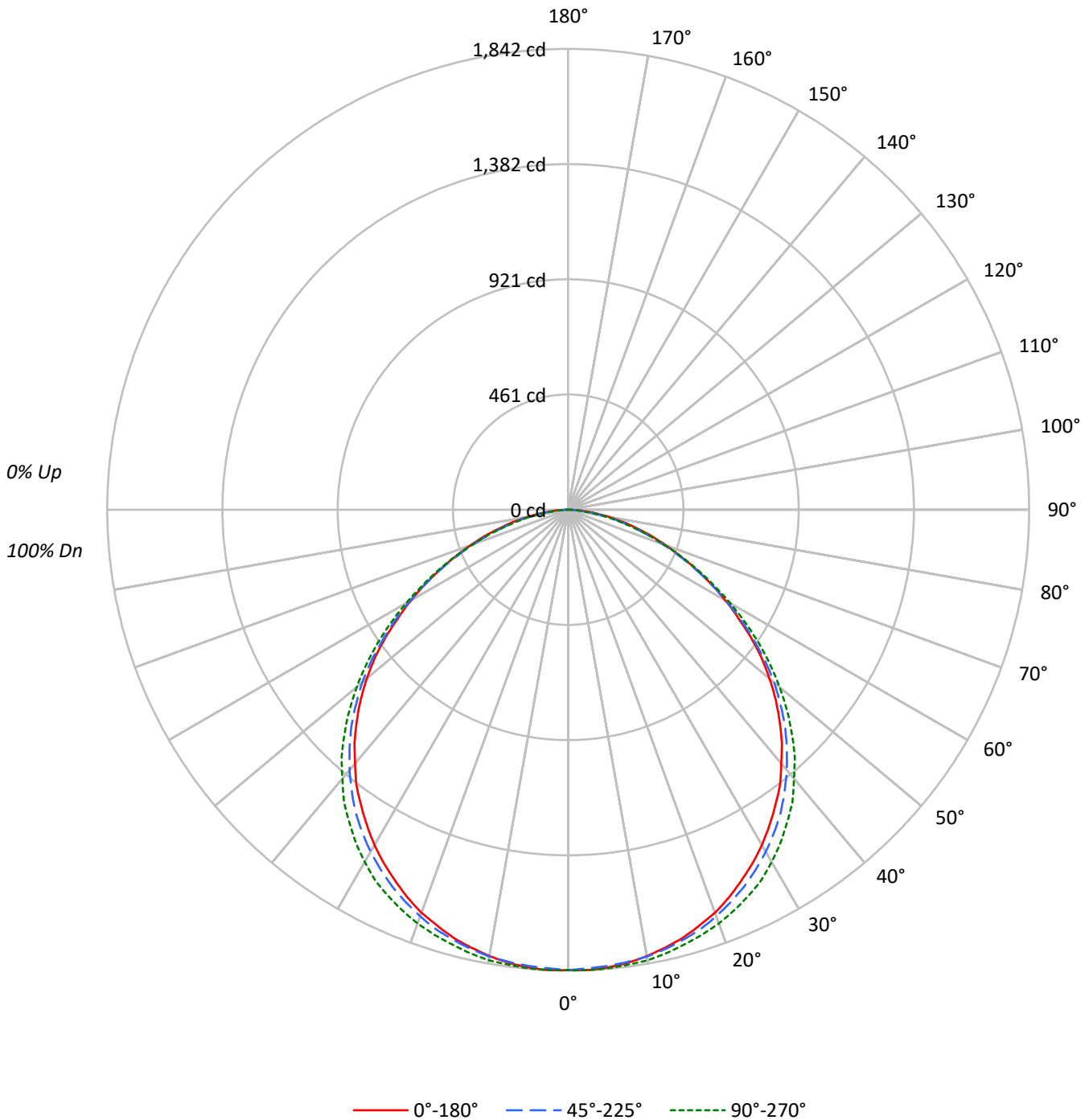
Input Watts (W): 49.569
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2476	2476	2476
5°	2480	2473	2485
10°	2475	2478	2499
15°	2468	2478	2505
20°	2454	2476	2520
25°	2429	2468	2528
30°	2405	2453	2527
35°	2371	2430	2505
40°	2327	2387	2464
45°	2274	2332	2405
50°	2198	2250	2310
55°	2091	2118	2181
60°	1952	1962	2014
65°	1793	1781	1823
70°	1629	1585	1592
75°	1449	1369	1359
80°	1258	1124	1095
85°	1031	795	619



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	174.5	3.5
10°-20°	503.1	10.0
20°-30°	768.0	15.3
30°-40°	925.8	18.4
40°-50°	944.2	18.8
50°-60°	808.0	16.1
60°-70°	556.6	11.1
70°-80°	285.3	5.7
80°-90°	66.4	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°	1445.6	28.7
0°-40°	2371.5	47.1
0°-60°	4123.6	81.9
0°-90°	5032.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5032.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1840	1840	1840	1840	1840	
5°	1836	1833	1831	1836	1840	175
15°	1772	1770	1779	1792	1798	500
25°	1636	1642	1663	1691	1703	754
35°	1443	1449	1479	1512	1525	903
45°	1195	1197	1226	1256	1264	921
55°	892	886	903	922	930	795
65°	563	550	559	563	573	560
75°	279	267	263	263	262	300
85°	67	59	52	46	40	78
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1840.2	1840.2	1840.2	1840.2	1840.2
2.5°	1842.1	1838.3	1834.5	1838.3	1842.1
5°	1836.4	1832.6	1830.7	1836.4	1840.2
7.5°	1826.9	1823.0	1823.0	1830.7	1834.5
10°	1811.6	1809.7	1813.5	1821.1	1828.8
12.5°	1792.5	1792.5	1798.2	1807.8	1815.4
15°	1771.5	1769.6	1779.1	1792.5	1798.2
17.5°	1742.9	1744.8	1758.1	1773.4	1781.0
20°	1714.2	1716.1	1729.5	1750.5	1760.0
22.5°	1678.0	1681.8	1697.1	1723.8	1733.3
25°	1636.0	1641.7	1662.7	1691.3	1702.8
27.5°	1594.0	1599.7	1622.6	1655.1	1670.3
30°	1548.2	1555.8	1578.7	1613.1	1626.4
32.5°	1496.6	1502.3	1531.0	1565.3	1578.7
35°	1443.2	1448.9	1479.4	1511.9	1525.2
37.5°	1389.7	1389.7	1420.3	1458.4	1471.8
40°	1324.8	1326.7	1359.2	1395.4	1403.1
42.5°	1263.7	1263.7	1292.4	1326.7	1340.1
45°	1195.0	1196.9	1225.5	1256.1	1263.7
47.5°	1124.4	1124.4	1149.2	1177.8	1185.5
50°	1049.9	1046.1	1074.7	1097.6	1103.4
52.5°	973.6	967.8	990.7	1009.8	1017.5
55°	891.5	885.7	902.9	922.0	929.7
57.5°	805.6	797.9	817.0	834.2	838.0
60°	725.4	713.9	729.2	738.8	748.3
62.5°	645.2	631.9	643.3	649.0	656.7
65°	563.1	549.8	559.3	563.1	572.7
67.5°	484.9	475.3	477.2	483.0	486.8
70°	414.2	402.8	402.8	402.8	404.7
72.5°	349.3	332.2	330.2	332.2	332.2
75°	278.7	267.3	263.4	263.4	261.5
77.5°	223.3	208.1	206.2	202.3	198.5
80°	162.3	148.9	145.1	143.2	141.3
82.5°	112.6	101.2	97.4	93.5	87.8
85°	66.8	59.2	51.5	45.8	40.1
87.5°	24.8	22.9	19.1	17.2	17.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)