

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: P296201

Luminaire Tested: **24RLN-LD5-60-RDP-UNV-L82765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296201
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-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: 5074.0 lumens
Efficiency: N/A
Efficacy: 115.1 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

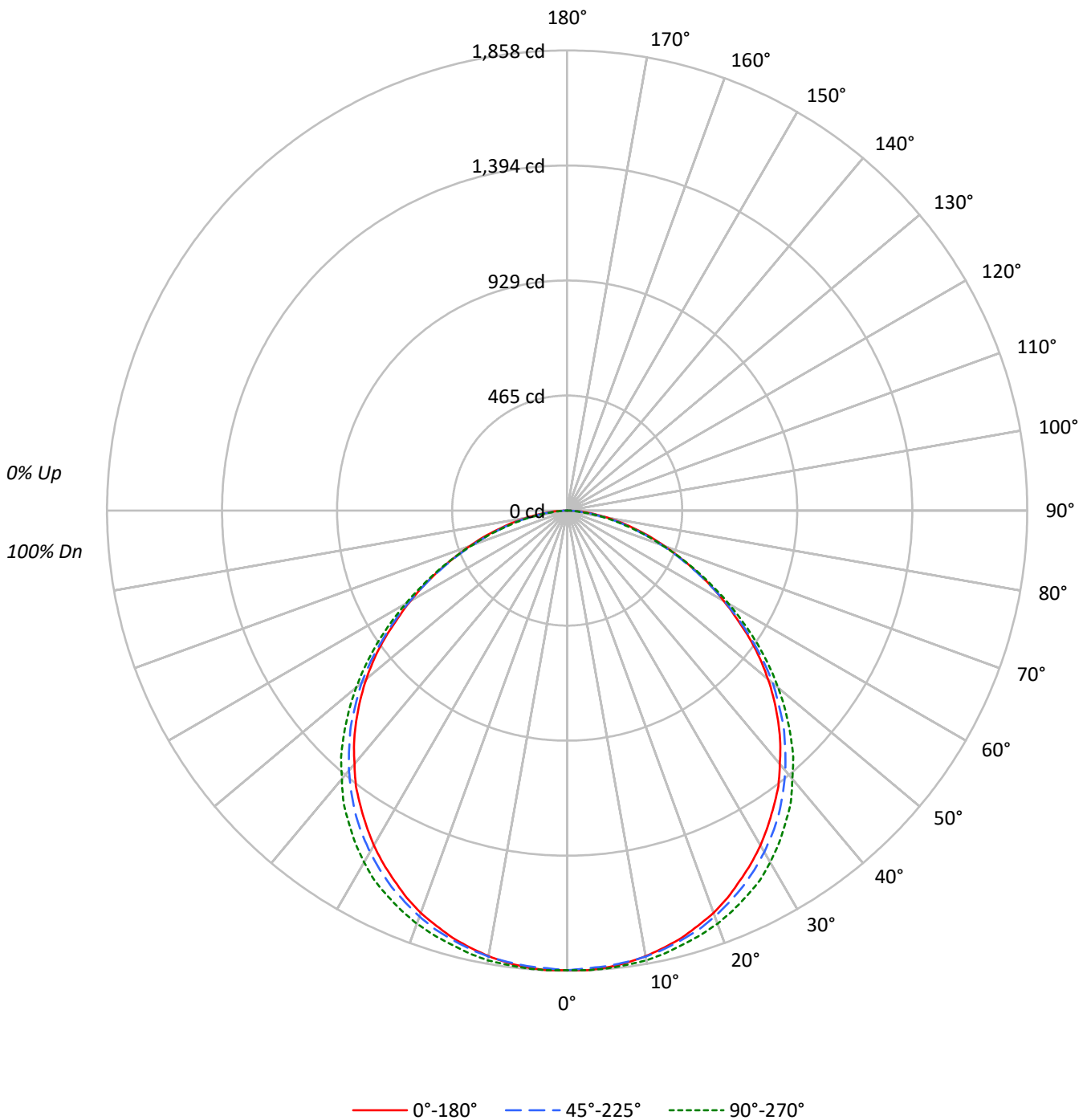
Input Watts (W): 44.082
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2497	2497	2497
5°	2501	2493	2506
10°	2496	2498	2519
15°	2488	2499	2526
20°	2475	2497	2541
25°	2449	2489	2549
30°	2425	2473	2548
35°	2390	2450	2526
40°	2346	2407	2485
45°	2293	2351	2425
50°	2216	2268	2329
55°	2109	2136	2199
60°	1968	1979	2031
65°	1808	1796	1839
70°	1643	1598	1605
75°	1461	1381	1371
80°	1268	1134	1103
85°	1041	803	624



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	176.0	3.5
10°-20°	507.3	10.0
20°-30°	774.4	15.3
30°-40°	933.6	18.4
40°-50°	952.0	18.8
50°-60°	814.8	16.1
60°-70°	561.2	11.1
70°-80°	287.7	5.7
80°-90°	67.0	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°	1457.7	28.7
0°-40°	2391.3	47.1
0°-60°	4158.1	81.9
0°-90°	5074.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5074.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1856	1856	1856	1856	1856	
5°	1852	1848	1846	1852	1856	176
15°	1786	1784	1794	1808	1813	504
25°	1650	1655	1677	1705	1717	761
35°	1455	1461	1492	1524	1538	910
45°	1205	1207	1236	1267	1274	928
55°	899	893	910	930	937	802
65°	568	554	564	568	578	564
75°	281	270	266	266	264	303
85°	67	60	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°	1855.6	1855.6	1855.6	1855.6	1855.6
2.5°	1857.5	1853.7	1849.8	1853.7	1857.5
5°	1851.7	1847.9	1846.0	1851.7	1855.6
7.5°	1842.1	1838.3	1838.3	1846.0	1849.8
10°	1826.7	1824.8	1828.6	1836.3	1844.0
12.5°	1807.5	1807.5	1813.2	1822.9	1830.6
15°	1786.3	1784.4	1794.0	1807.5	1813.2
17.5°	1757.4	1759.3	1772.8	1788.2	1795.9
20°	1728.5	1730.5	1743.9	1765.1	1774.7
22.5°	1692.0	1695.8	1711.2	1738.2	1747.8
25°	1649.6	1655.4	1676.6	1705.4	1717.0
27.5°	1607.3	1613.0	1636.1	1668.9	1684.3
30°	1561.1	1568.8	1591.9	1626.5	1640.0
32.5°	1509.1	1514.9	1543.8	1578.4	1591.9
35°	1455.2	1461.0	1491.8	1524.5	1538.0
37.5°	1401.3	1401.3	1432.1	1470.6	1484.1
40°	1335.9	1337.8	1370.5	1407.1	1414.8
42.5°	1274.3	1274.3	1303.1	1337.8	1351.3
45°	1205.0	1206.9	1235.8	1266.6	1274.3
47.5°	1133.8	1133.8	1158.8	1187.6	1195.3
50°	1058.7	1054.8	1083.7	1106.8	1112.6
52.5°	981.7	975.9	999.0	1018.3	1026.0
55°	898.9	893.1	910.5	929.7	937.4
57.5°	812.3	804.6	823.8	841.2	845.0
60°	731.5	719.9	735.3	744.9	754.6
62.5°	650.6	637.1	648.7	654.5	662.2
65°	567.8	554.4	564.0	567.8	577.5
67.5°	488.9	479.3	481.2	487.0	490.8
70°	417.7	406.1	406.1	406.1	408.1
72.5°	352.3	334.9	333.0	334.9	334.9
75°	281.0	269.5	265.6	265.6	263.7
77.5°	225.2	209.8	207.9	204.0	200.2
80°	163.6	150.1	146.3	144.4	142.4
82.5°	113.6	102.0	98.2	94.3	88.5
85°	67.4	59.7	52.0	46.2	40.4
87.5°	25.0	23.1	19.2	17.3	17.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)