

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: P296128

Luminaire Tested: **24RLN-LD5-67-RDP-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296128
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-L83050-W2A1-U-3000K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (504) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5248.0 lumens
Efficiency: N/A
Efficacy: 108.1 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

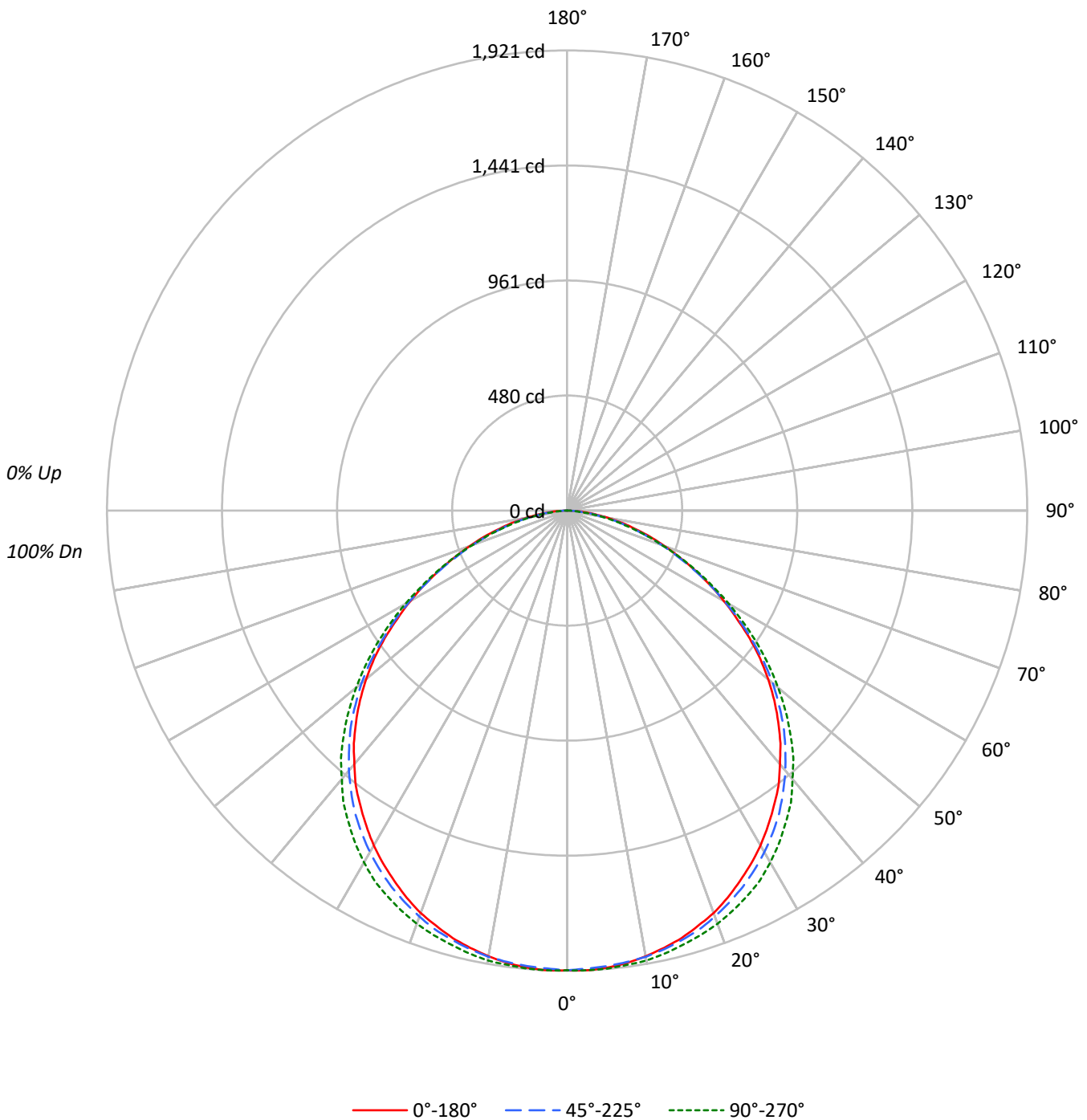
Input Watts (W): 48.546
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	109	105	101	97	107	102	99	95	98	95	92	94	92	90	91	89	87	85					85			
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	73	71					71			
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	66	63	60					60			
4	83	72	63	57	81	70	62	56	68	61	55	66	60	55	63	58	54	52					52			
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45					45			
6	71	58	49	43	69	57	49	43	55	48	42	53	47	42	52	46	41	39					39			
7	66	52	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37	35					35			
8	61	48	39	34	60	47	39	34	46	39	33	45	38	33	43	37	33	31					31			
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28					28			
10	54	41	33	27	52	40	33	27	39	32	27	38	32	27	37	31	27	25					25			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2582	2582	2582
5°	2587	2579	2592
10°	2581	2584	2606
15°	2573	2585	2612
20°	2560	2583	2628
25°	2533	2574	2636
30°	2509	2558	2635
35°	2472	2534	2613
40°	2427	2490	2570
45°	2371	2432	2508
50°	2292	2346	2409
55°	2181	2209	2274
60°	2036	2046	2100
65°	1870	1857	1902
70°	1699	1653	1661
75°	1511	1428	1418
80°	1311	1172	1141
85°	1076	831	645



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.0	3.5
10°-20°	524.7	10.0
20°-30°	800.9	15.3
30°-40°	965.6	18.4
40°-50°	984.7	18.8
50°-60°	842.7	16.1
60°-70°	580.5	11.1
70°-80°	297.6	5.7
80°-90°	69.3	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°	1507.7	28.7
0°-40°	2473.3	47.1
0°-60°	4300.7	81.9
0°-90°	5248.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5248.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1919	1919	1919	1919	1919	
5°	1915	1911	1909	1915	1919	182
15°	1848	1846	1856	1869	1875	521
25°	1706	1712	1734	1764	1776	787
35°	1505	1511	1543	1577	1591	942
45°	1246	1248	1278	1310	1318	960
55°	930	924	942	962	970	829
65°	587	573	583	587	597	584
75°	291	279	275	275	273	313
85°	70	62	54	48	42	81
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1919.2	1919.2	1919.2	1919.2	1919.2
2.5°	1921.2	1917.2	1913.2	1917.2	1921.2
5°	1915.2	1911.2	1909.3	1915.2	1919.2
7.5°	1905.3	1901.3	1901.3	1909.3	1913.2
10°	1889.4	1887.4	1891.3	1899.3	1907.3
12.5°	1869.4	1869.4	1875.4	1885.4	1893.3
15°	1847.5	1845.6	1855.5	1869.4	1875.4
17.5°	1817.7	1819.7	1833.6	1849.5	1857.5
20°	1787.8	1789.8	1803.7	1825.6	1835.6
22.5°	1750.0	1754.0	1769.9	1797.8	1807.7
25°	1706.2	1712.2	1734.1	1763.9	1775.9
27.5°	1662.4	1668.4	1692.3	1726.1	1742.0
30°	1614.6	1622.6	1646.5	1682.3	1696.2
32.5°	1560.9	1566.8	1596.7	1632.5	1646.5
35°	1505.1	1511.1	1542.9	1576.8	1590.7
37.5°	1449.4	1449.4	1481.2	1521.0	1535.0
40°	1381.7	1383.7	1417.5	1455.3	1463.3
42.5°	1318.0	1318.0	1347.8	1383.7	1397.6
45°	1246.3	1248.3	1278.1	1310.0	1318.0
47.5°	1172.6	1172.6	1198.5	1228.4	1236.3
50°	1095.0	1091.0	1120.9	1144.8	1150.7
52.5°	1015.4	1009.4	1033.3	1053.2	1061.1
55°	929.7	923.8	941.7	961.6	969.6
57.5°	840.2	832.2	852.1	870.0	874.0
60°	756.5	744.6	760.5	770.5	780.4
62.5°	672.9	659.0	670.9	676.9	684.9
65°	587.3	573.4	583.3	587.3	597.3
67.5°	505.7	495.7	497.7	503.7	507.7
70°	432.0	420.1	420.1	420.1	422.1
72.5°	364.3	346.4	344.4	346.4	346.4
75°	290.7	278.7	274.7	274.7	272.8
77.5°	232.9	217.0	215.0	211.0	207.1
80°	169.2	155.3	151.3	149.3	147.3
82.5°	117.5	105.5	101.5	97.6	91.6
85°	69.7	61.7	53.8	47.8	41.8
87.5°	25.9	23.9	19.9	17.9	17.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)