

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: P296270

Luminaire Tested: **24RLN-LD5-67-RDP-UNV-L93050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296270
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-L93050-W2A1-U-4000K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (504) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5098.0 lumens
Efficiency: N/A
Efficacy: 102.1 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

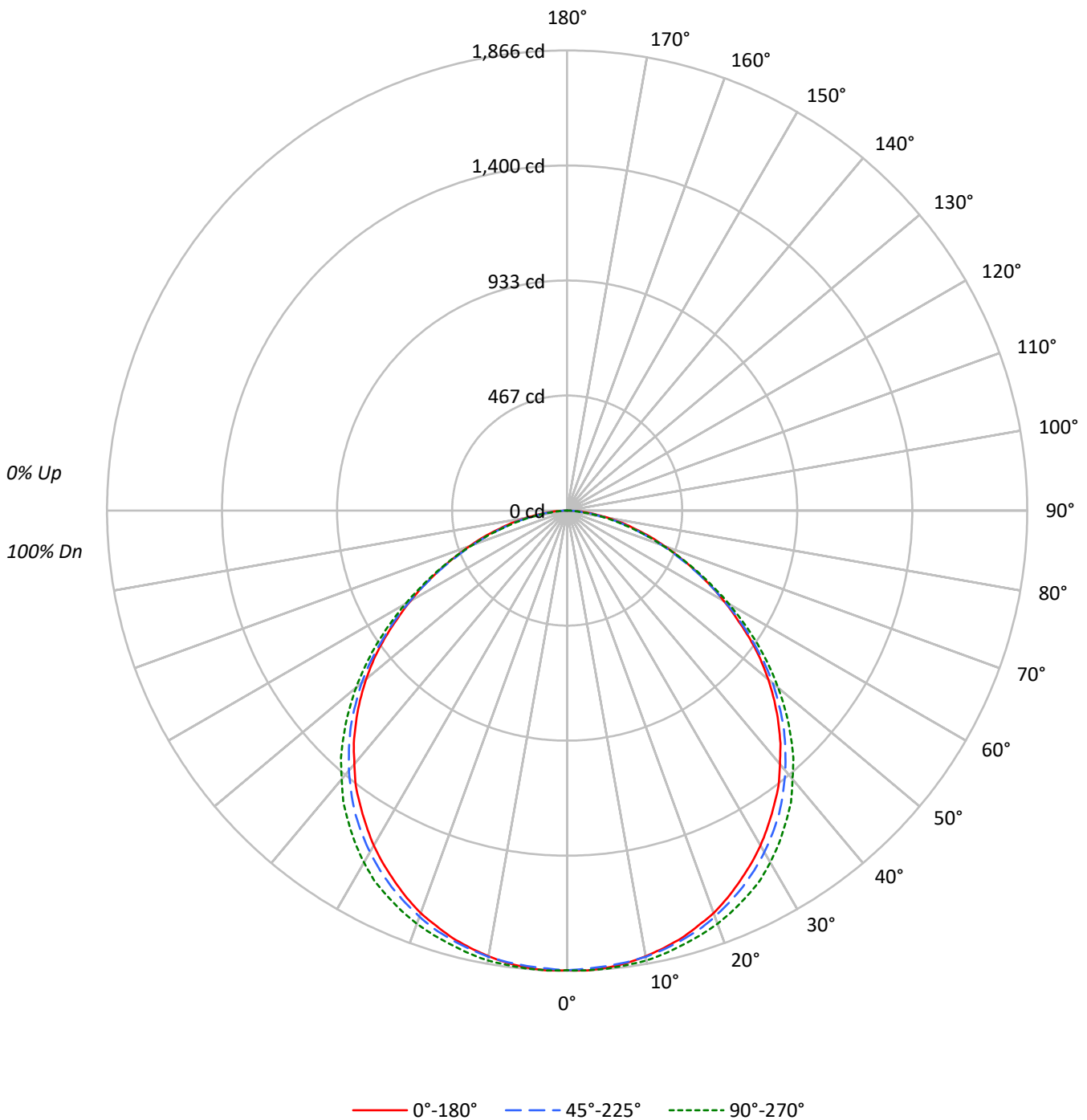
Input Watts (W): 49.941
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2509	2509	2509
5°	2513	2505	2518
10°	2507	2510	2531
15°	2500	2511	2538
20°	2487	2509	2553
25°	2461	2501	2561
30°	2437	2485	2560
35°	2402	2462	2538
40°	2357	2419	2497
45°	2304	2363	2436
50°	2227	2279	2340
55°	2119	2146	2209
60°	1978	1988	2040
65°	1816	1804	1847
70°	1651	1605	1613
75°	1468	1387	1378
80°	1274	1139	1109
85°	1045	806	627



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	176.8	3.5
10°-20°	509.7	10.0
20°-30°	778.1	15.3
30°-40°	938.0	18.4
40°-50°	956.5	18.8
50°-60°	818.6	16.1
60°-70°	563.9	11.1
70°-80°	289.1	5.7
80°-90°	67.3	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°	1464.6	28.7
0°-40°	2402.6	47.1
0°-60°	4177.7	81.9
0°-90°	5098.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5098.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1864	1864	1864	1864	1864	
5°	1860	1857	1855	1860	1864	177
15°	1795	1793	1802	1816	1822	506
25°	1657	1663	1684	1714	1725	764
35°	1462	1468	1499	1532	1545	915
45°	1211	1213	1242	1273	1280	933
55°	903	897	915	934	942	806
65°	570	557	567	570	580	567
75°	282	271	267	267	265	304
85°	68	60	52	46	41	79
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1864.4	1864.4	1864.4	1864.4	1864.4
2.5°	1866.3	1862.4	1858.6	1862.4	1866.3
5°	1860.5	1856.6	1854.7	1860.5	1864.4
7.5°	1850.8	1847.0	1847.0	1854.7	1858.6
10°	1835.3	1833.4	1837.3	1845.0	1852.8
12.5°	1816.0	1816.0	1821.8	1831.5	1839.2
15°	1794.7	1792.8	1802.5	1816.0	1821.8
17.5°	1765.7	1767.7	1781.2	1796.7	1804.4
20°	1736.7	1738.6	1752.2	1773.5	1783.1
22.5°	1700.0	1703.8	1719.3	1746.4	1756.1
25°	1657.4	1663.2	1684.5	1713.5	1725.1
27.5°	1614.9	1620.7	1643.9	1676.8	1692.2
30°	1568.5	1576.2	1599.4	1634.2	1647.8
32.5°	1516.2	1522.0	1551.1	1585.9	1599.4
35°	1462.1	1467.9	1498.8	1531.7	1545.3
37.5°	1407.9	1407.9	1438.9	1477.6	1491.1
40°	1342.2	1344.1	1377.0	1413.7	1421.5
42.5°	1280.3	1280.3	1309.3	1344.1	1357.7
45°	1210.7	1212.6	1241.6	1272.6	1280.3
47.5°	1139.1	1139.1	1164.3	1193.3	1201.0
50°	1063.7	1059.8	1088.8	1112.0	1117.8
52.5°	986.3	980.5	1003.7	1023.1	1030.8
55°	903.2	897.4	914.8	934.1	941.8
57.5°	816.1	808.4	827.7	845.1	849.0
60°	734.9	723.3	738.8	748.5	758.1
62.5°	653.7	640.1	651.8	657.6	665.3
65°	570.5	557.0	566.7	570.5	580.2
67.5°	491.2	481.6	483.5	489.3	493.2
70°	419.7	408.1	408.1	408.1	410.0
72.5°	353.9	336.5	334.6	336.5	336.5
75°	282.4	270.8	266.9	266.9	265.0
77.5°	226.3	210.8	208.9	205.0	201.1
80°	164.4	150.9	147.0	145.0	143.1
82.5°	114.1	102.5	98.6	94.8	89.0
85°	67.7	60.0	52.2	46.4	40.6
87.5°	25.1	23.2	19.3	17.4	17.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)