

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: P232309

Luminaire Tested: **24RDI-50-UNV-L835-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P232309
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1706-078-2-R2)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24RDI-50-UNV-L835-CD1-U
Description: METALUX 2X4 OVATION LED TROFFER
STANDARD VERISON
Light Source: (392) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5067.0 lumens
Efficiency: N/A
Efficacy: 100.7 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.32 / 1.4
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

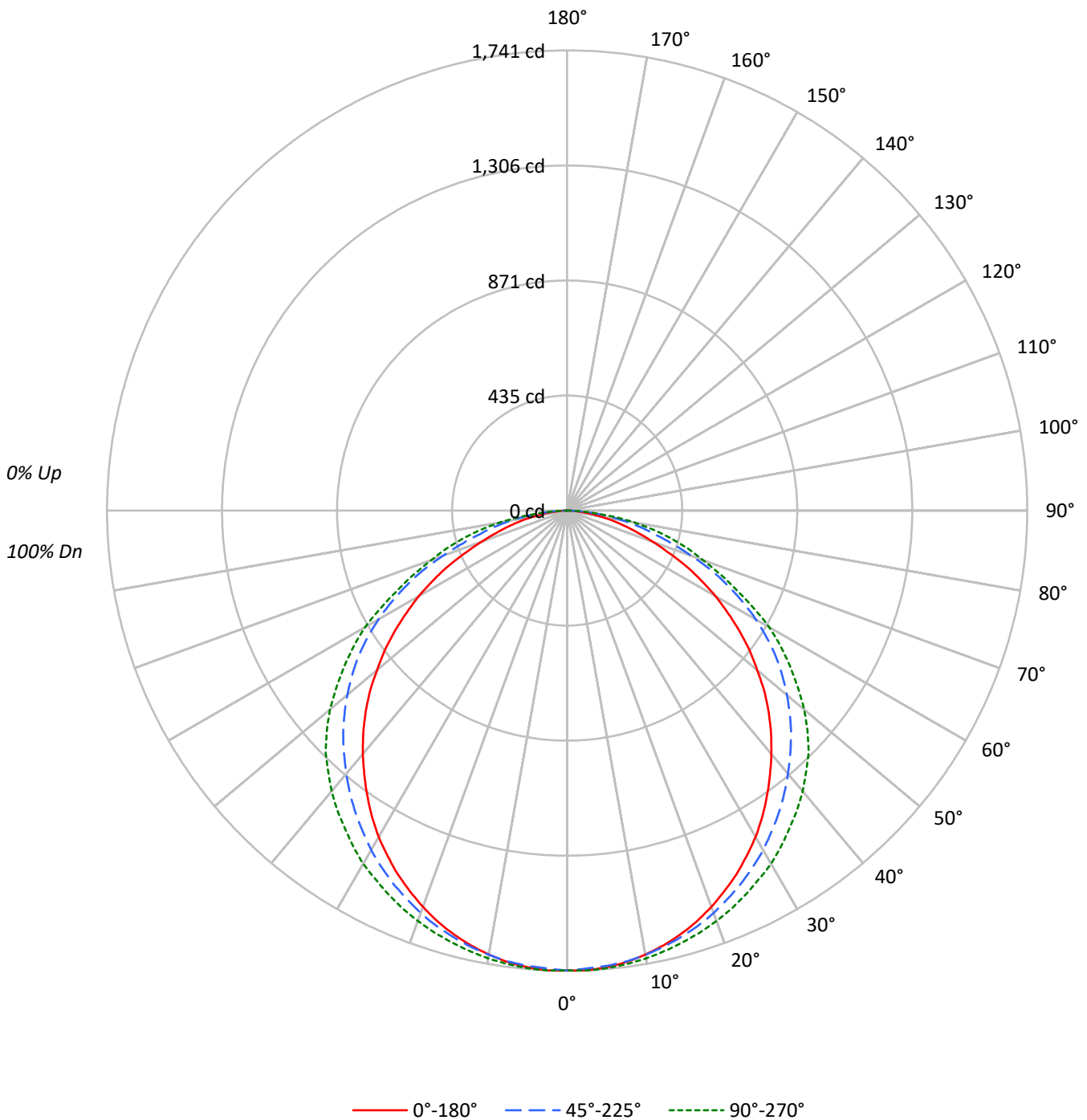
Input Watts (W): 50.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	104	99	96	106	102	98	94	97	94	91	93	91	88	90	88	86	84
2	99	90	83	78	96	88	82	77	85	80	75	82	77	73	79	75	72	69
3	90	79	71	64	87	78	70	64	75	68	63	72	66	61	69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53	64	58	52	62	56	52	50
5	75	62	53	47	73	61	53	46	59	52	46	57	51	45	55	50	45	43
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37
7	65	51	42	36	63	50	42	36	49	41	35	47	40	35	46	40	35	33
8	60	46	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2341	2341	2341
5°	2342	2335	2347
10°	2330	2332	2350
15°	2312	2326	2355
20°	2285	2320	2366
25°	2253	2312	2378
30°	2215	2304	2398
35°	2166	2293	2409
40°	2112	2283	2435
45°	2052	2281	2459
50°	1965	2273	2452
55°	1868	2263	2417
60°	1744	2220	2376
65°	1579	2134	2240
70°	1352	1966	2146
75°	1176	1768	2115
80°	978	1648	1974
85°	668	1280	1451



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.7	3.3
10°-20°	472.3	9.3
20°-30°	718.5	14.2
30°-40°	873.0	17.2
40°-50°	918.0	18.1
50°-60°	837.6	16.5
60°-70°	630.7	12.4
70°-80°	358.2	7.1
80°-90°	94.0	1.9
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°	1355.6	26.8
0°-40°	2228.6	44.0
0°-60°	3984.2	78.6
0°-90°	5067.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5067.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1740	1740	1740	1740	1740	
5°	1734	1732	1729	1735	1738	165
15°	1660	1662	1670	1686	1691	468
25°	1518	1529	1557	1590	1602	699
35°	1318	1343	1396	1448	1467	824
45°	1078	1114	1198	1265	1292	830
55°	796	858	965	1015	1030	711
65°	496	578	670	695	704	489
75°	226	298	340	393	407	243
85°	43	66	83	96	94	56
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1740.2	1740.2	1740.2	1740.2	1740.2
2.5°	1741.4	1738.9	1734.0	1738.9	1741.4
5°	1734.0	1731.5	1729.0	1735.2	1737.7
7.5°	1722.9	1721.6	1720.4	1727.8	1730.3
10°	1705.5	1705.5	1706.8	1716.7	1720.4
12.5°	1684.5	1684.5	1689.5	1701.8	1706.8
15°	1659.8	1662.3	1669.7	1685.8	1690.7
17.5°	1630.1	1635.0	1647.4	1666.0	1673.4
20°	1595.5	1601.6	1620.2	1643.7	1652.4
22.5°	1557.1	1568.3	1589.3	1619.0	1628.9
25°	1517.5	1528.7	1557.1	1590.5	1601.6
27.5°	1471.8	1485.4	1521.3	1558.4	1572.0
30°	1426.0	1438.4	1482.9	1526.2	1543.5
32.5°	1374.1	1391.4	1439.6	1487.9	1506.4
35°	1318.4	1343.2	1396.3	1448.3	1466.8
37.5°	1260.3	1290.0	1349.3	1407.5	1428.5
40°	1202.2	1235.6	1299.9	1361.7	1386.4
42.5°	1141.6	1176.2	1249.2	1316.0	1338.2
45°	1078.5	1114.4	1198.5	1265.2	1292.5
47.5°	1011.7	1055.0	1142.8	1212.1	1233.1
50°	938.7	990.7	1085.9	1152.7	1171.2
52.5°	870.7	923.9	1026.5	1090.9	1100.7
55°	796.5	858.3	964.7	1015.4	1030.3
57.5°	721.1	790.3	896.7	943.7	958.5
60°	648.1	718.6	824.9	868.2	883.1
62.5°	570.2	653.0	749.5	790.3	792.8
65°	496.0	577.6	670.3	695.1	703.7
67.5°	415.6	509.6	591.2	612.2	624.6
70°	343.8	440.3	499.7	534.3	545.4
72.5°	283.2	368.6	415.6	465.0	479.9
75°	226.3	298.1	340.1	393.3	406.9
77.5°	175.6	231.3	278.3	325.3	332.7
80°	126.2	159.5	212.7	248.6	254.8
82.5°	84.1	105.1	150.9	170.7	174.4
85°	43.3	65.6	82.9	96.5	94.0
87.5°	16.1	24.7	28.4	32.2	28.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)