

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: P232310

Luminaire Tested: **24RDI-50-UNV-L840-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P232310
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-L840-CD1-U
Description: METALUX 2X4 OVATION LED TROFFER
STANDARD VERISON
Light Source: (392) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

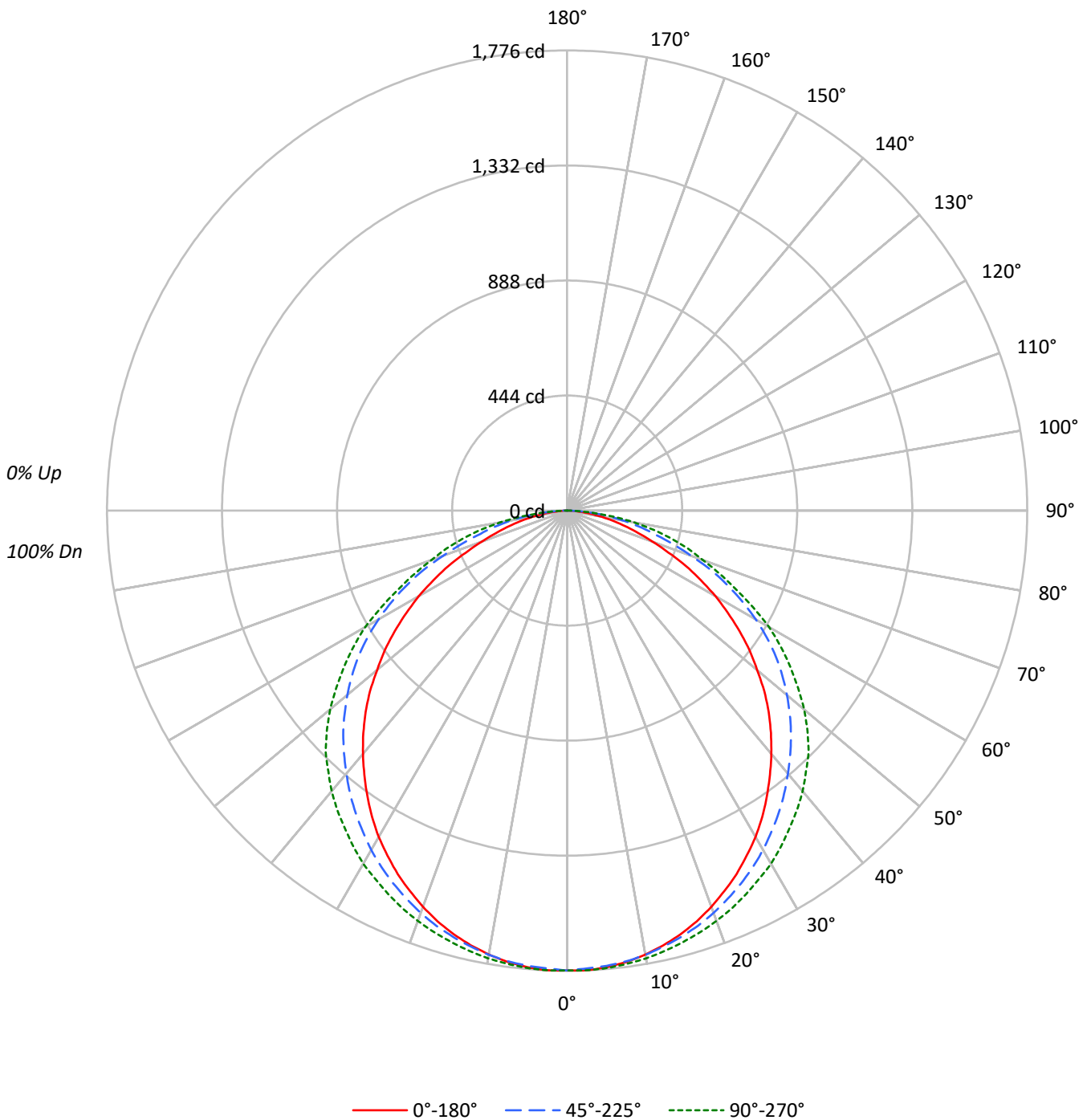
Lumens per Lamp: N/A
Luminaire Lumens: 5168.0 lumens
Efficiency: N/A
Efficacy: 102.7 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.32 / 1.4
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	2388	2388	2388
5°	2389	2382	2394
10°	2377	2378	2397
15°	2358	2372	2402
20°	2330	2366	2413
25°	2298	2358	2425
30°	2260	2350	2446
35°	2209	2339	2457
40°	2154	2329	2484
45°	2093	2326	2508
50°	2004	2318	2501
55°	1906	2308	2465
60°	1779	2264	2424
65°	1610	2177	2285
70°	1380	2005	2188
75°	1200	1803	2157
80°	997	1681	2014
85°	682	1304	1480



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.0	3.3
10°-20°	481.7	9.3
20°-30°	732.9	14.2
30°-40°	890.4	17.2
40°-50°	936.3	18.1
50°-60°	854.3	16.5
60°-70°	643.2	12.4
70°-80°	365.3	7.1
80°-90°	95.9	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°	1382.6	26.8
0°-40°	2273.0	44.0
0°-60°	4063.6	78.6
0°-90°	5168.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5168.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1775	1775	1775	1775	1775	
5°	1769	1766	1764	1770	1772	168
15°	1693	1695	1703	1719	1724	477
25°	1548	1559	1588	1622	1634	713
35°	1345	1370	1424	1477	1496	841
45°	1100	1137	1222	1290	1318	847
55°	812	875	984	1036	1051	725
65°	506	589	684	709	718	499
75°	231	304	347	401	415	247
85°	44	67	84	98	96	57
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1774.9	1774.9	1774.9	1774.9	1774.9
2.5°	1776.1	1773.6	1768.6	1773.6	1776.1
5°	1768.6	1766.0	1763.5	1769.8	1772.3
7.5°	1757.2	1755.9	1754.7	1762.2	1764.8
10°	1739.5	1739.5	1740.8	1750.9	1754.7
12.5°	1718.1	1718.1	1723.1	1735.8	1740.8
15°	1692.9	1695.4	1703.0	1719.4	1724.4
17.5°	1662.6	1667.6	1680.2	1699.2	1706.7
20°	1627.3	1633.6	1652.5	1676.5	1685.3
22.5°	1588.2	1599.5	1621.0	1651.2	1661.3
25°	1547.8	1559.2	1588.2	1622.2	1633.6
27.5°	1501.1	1515.0	1551.6	1589.4	1603.3
30°	1454.4	1467.1	1512.5	1556.6	1574.3
32.5°	1401.5	1419.1	1468.3	1517.5	1536.4
35°	1344.7	1369.9	1424.2	1477.2	1496.1
37.5°	1285.4	1315.7	1376.2	1435.5	1457.0
40°	1226.1	1260.2	1325.8	1388.9	1414.1
42.5°	1164.3	1199.6	1274.1	1342.2	1364.9
45°	1100.0	1136.6	1222.3	1290.5	1318.2
47.5°	1031.9	1076.0	1165.6	1236.2	1257.7
50°	957.4	1010.4	1107.6	1175.7	1194.6
52.5°	888.1	942.3	1047.0	1112.6	1122.7
55°	812.4	875.4	983.9	1035.6	1050.8
57.5°	735.4	806.1	914.5	962.5	977.6
60°	661.0	732.9	841.4	885.5	900.7
62.5°	581.5	666.0	764.4	806.1	808.6
65°	505.8	589.1	683.7	708.9	717.8
67.5°	423.8	519.7	603.0	624.4	637.0
70°	350.7	449.1	509.6	544.9	556.3
72.5°	288.9	375.9	423.8	474.3	489.4
75°	230.8	304.0	346.9	401.1	415.0
77.5°	179.1	235.9	283.8	331.8	339.3
80°	128.7	162.7	217.0	253.6	259.9
82.5°	85.8	107.2	153.9	174.1	177.9
85°	44.2	66.9	84.5	98.4	95.9
87.5°	16.4	25.2	29.0	32.8	29.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)