

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: P232311

Luminaire Tested: **24RDI-50-UNV-L850-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P232311
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-L850-CD1-U
Description: METALUX 2X4 OVATION LED TROFFER
STANDARD VERISON
Light Source: (392) 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

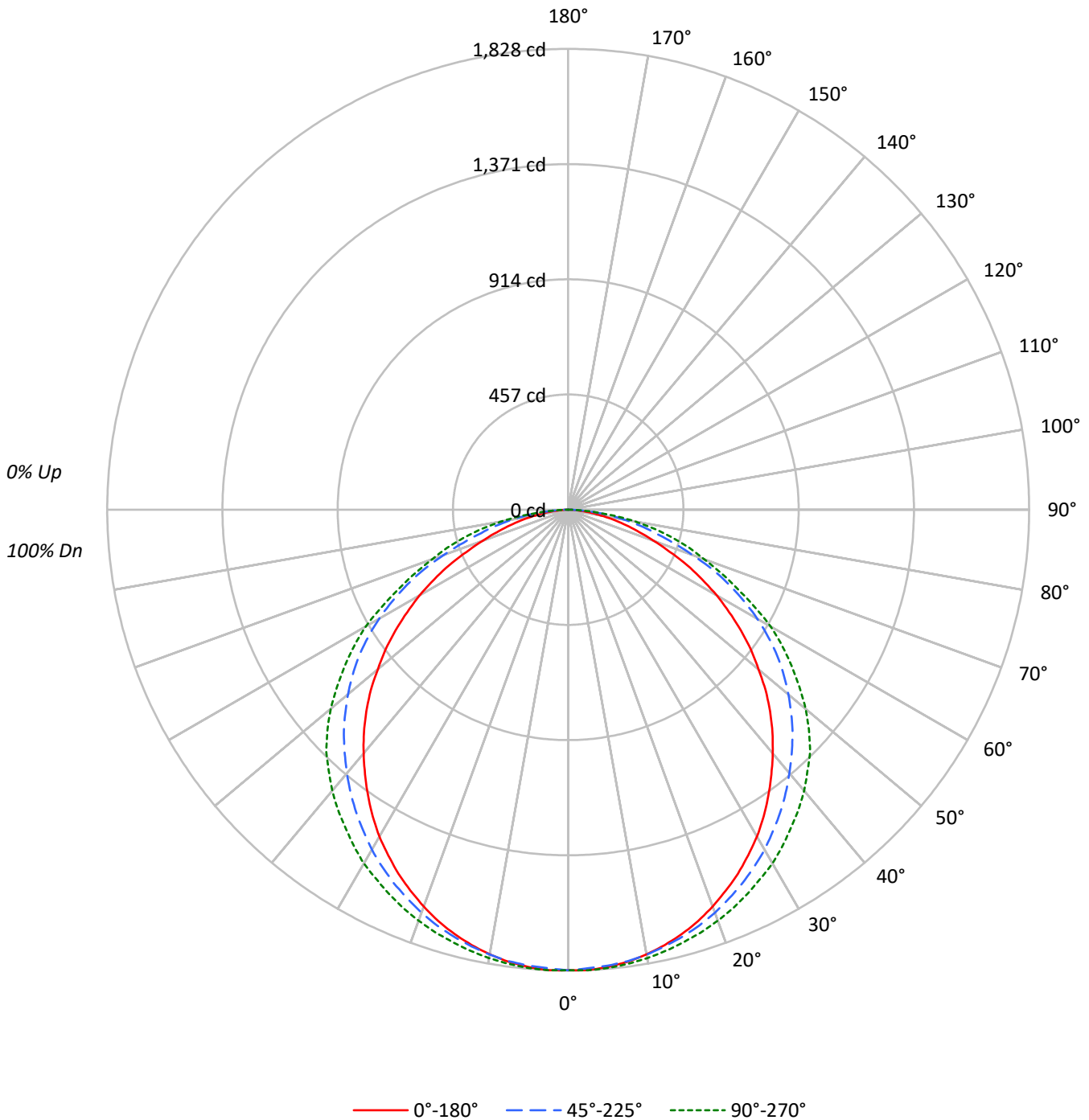
Lumens per Lamp: N/A
Luminaire Lumens: 5320.0 lumens
Efficiency: N/A
Efficacy: 105.8 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.32 / 1.4
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	2458	2458	2458
5°	2459	2452	2464
10°	2447	2448	2468
15°	2427	2442	2473
20°	2398	2436	2484
25°	2365	2427	2496
30°	2326	2419	2518
35°	2274	2408	2530
40°	2217	2397	2557
45°	2155	2394	2582
50°	2063	2386	2574
55°	1962	2376	2537
60°	1831	2331	2495
65°	1658	2241	2352
70°	1420	2064	2253
75°	1235	1856	2221
80°	1027	1731	2073
85°	701	1343	1524



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	172.9	3.3
10°-20°	495.9	9.3
20°-30°	754.4	14.2
30°-40°	916.6	17.2
40°-50°	963.8	18.1
50°-60°	879.4	16.5
60°-70°	662.2	12.4
70°-80°	376.0	7.1
80°-90°	98.7	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°	1423.3	26.8
0°-40°	2339.8	44.0
0°-60°	4183.1	78.6
0°-90°	5320.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5320.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1827	1827	1827	1827	1827	
5°	1821	1818	1815	1822	1824	173
15°	1743	1745	1753	1770	1775	491
25°	1593	1605	1635	1670	1682	733
35°	1384	1410	1466	1521	1540	866
45°	1132	1170	1258	1328	1357	872
55°	836	901	1013	1066	1082	747
65°	521	606	704	730	739	513
75°	238	313	357	413	427	255
85°	45	69	87	101	99	59
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1827.1	1827.1	1827.1	1827.1	1827.1
2.5°	1828.4	1825.8	1820.6	1825.8	1828.4
5°	1820.6	1818.0	1815.4	1821.9	1824.5
7.5°	1808.9	1807.6	1806.3	1814.1	1816.7
10°	1790.7	1790.7	1792.0	1802.4	1806.3
12.5°	1768.6	1768.6	1773.8	1786.8	1792.0
15°	1742.7	1745.3	1753.0	1769.9	1775.1
17.5°	1711.5	1716.7	1729.7	1749.1	1756.9
20°	1675.1	1681.6	1701.1	1725.8	1734.9
22.5°	1634.9	1646.6	1668.6	1699.8	1710.2
25°	1593.3	1605.0	1634.9	1669.9	1681.6
27.5°	1545.3	1559.6	1597.2	1636.2	1650.5
30°	1497.2	1510.2	1557.0	1602.4	1620.6
32.5°	1442.7	1460.9	1511.5	1562.2	1581.6
35°	1384.3	1410.2	1466.1	1520.6	1540.1
37.5°	1323.2	1354.4	1416.7	1477.7	1499.8
40°	1262.2	1297.3	1364.8	1429.7	1455.7
42.5°	1198.6	1234.9	1311.5	1381.7	1405.0
45°	1132.3	1170.0	1258.3	1328.4	1357.0
47.5°	1062.2	1107.7	1199.9	1272.6	1294.7
50°	985.6	1040.1	1140.1	1210.2	1229.7
52.5°	914.2	970.0	1077.8	1145.3	1155.7
55°	836.3	901.2	1012.9	1066.1	1081.7
57.5°	757.1	829.8	941.4	990.8	1006.4
60°	680.4	754.5	866.1	911.6	927.2
62.5°	598.6	685.6	786.9	829.8	832.4
65°	520.7	606.4	703.8	729.8	738.9
67.5°	436.3	535.0	620.7	642.8	655.8
70°	361.0	462.3	524.6	561.0	572.7
72.5°	297.4	387.0	436.3	488.3	503.8
75°	237.6	313.0	357.1	412.9	427.2
77.5°	184.4	242.8	292.2	341.5	349.3
80°	132.5	167.5	223.4	261.0	267.5
82.5°	88.3	110.4	158.4	179.2	183.1
85°	45.4	68.8	87.0	101.3	98.7
87.5°	16.9	26.0	29.9	33.8	29.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)