

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: P232323

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P232323
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1706-078-8-R2)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24RDIA-50-UNV-L850-CD1-U
Description: METALUX 2X4 OVATION LED TROFFER
AIR VENTED VERSION
Light Source: (392) 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

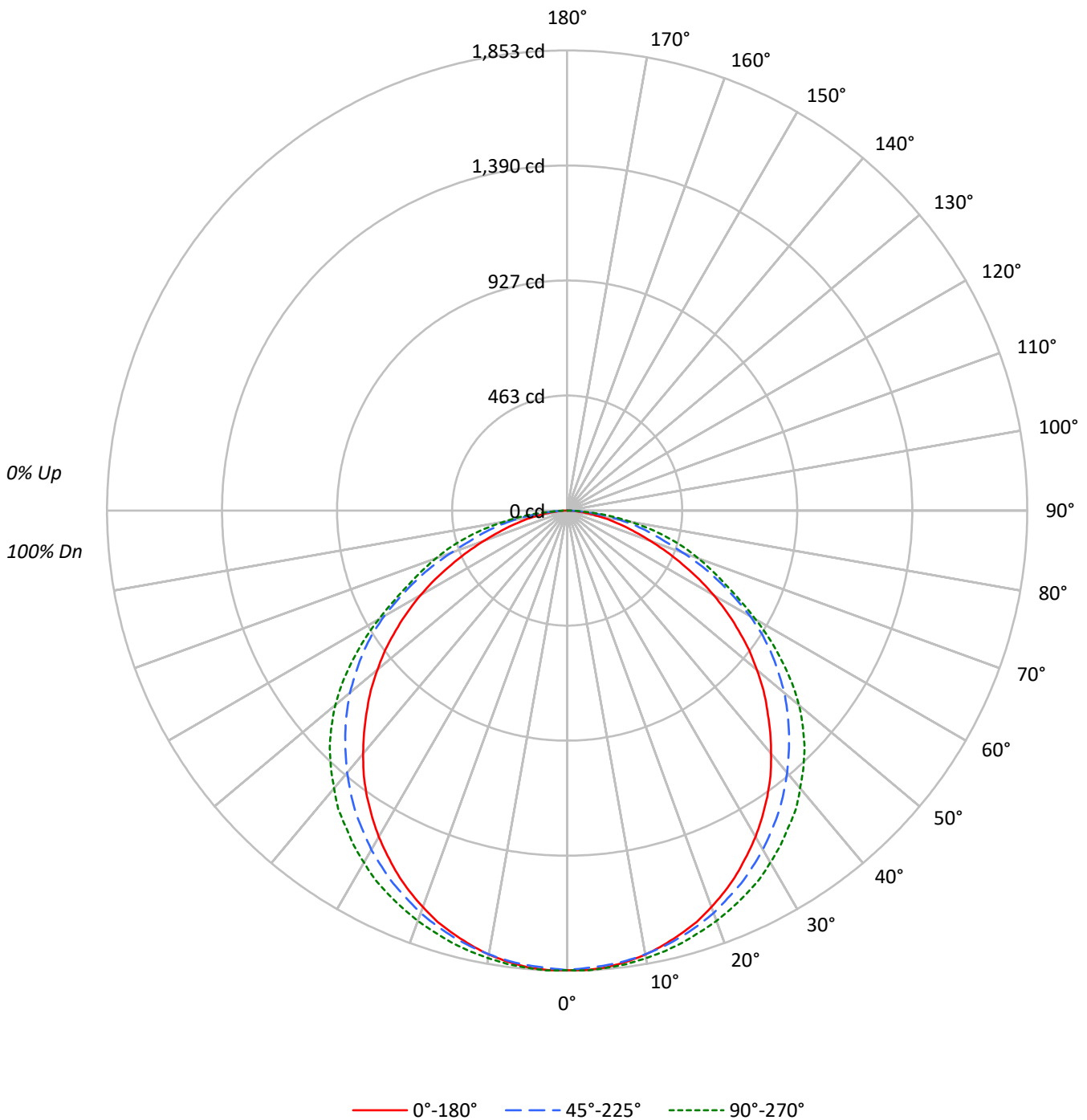
Lumens per Lamp: N/A
Luminaire Lumens: 5309.0 lumens
Efficiency: N/A
Efficacy: 105.5 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.39
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

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	100	96	106	102	98	94	97	94	91	94	91	88	90	88	86	84
2	99	91	84	78	96	89	82	77	85	80	75	82	77	74	79	75	72	70
3	90	79	71	65	88	78	70	64	75	68	63	72	67	62	70	65	61	59
4	82	70	62	55	80	69	61	54	67	59	54	64	58	53	62	57	52	50
5	76	63	54	47	74	62	53	47	60	52	46	58	51	46	56	50	45	43
6	70	57	48	41	68	56	47	41	54	46	41	52	45	40	50	44	40	38
7	65	51	42	36	63	50	42	36	49	41	36	47	41	36	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	28	27
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2988	2988	2988
5°	2991	2978	2995
10°	2977	2975	3000
15°	2950	2970	3009
20°	2919	2963	3021
25°	2878	2952	3036
30°	2828	2940	3051
35°	2770	2926	3064
40°	2694	2904	3077
45°	2604	2885	3087
50°	2505	2868	3063
55°	2373	2830	2972
60°	2202	2747	2831
65°	1960	2580	2684
70°	1686	2342	2655
75°	1426	2172	2609
80°	1159	2017	2379
85°	819	1564	1877



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	175.2	3.3
10°-20°	502.6	9.5
20°-30°	764.6	14.4
30°-40°	927.1	17.5
40°-50°	968.2	18.2
50°-60°	872.1	16.4
60°-70°	641.6	12.1
70°-80°	363.2	6.8
80°-90°	94.6	1.8
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°	1442.3	27.2
0°-40°	2369.4	44.6
0°-60°	4209.6	79.3
0°-90°	5309.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5309.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1851	1851	1851	1851	1851	
5°	1846	1842	1838	1846	1848	175
15°	1765	1768	1777	1794	1800	498
25°	1616	1626	1657	1692	1704	744
35°	1405	1429	1484	1535	1555	878
45°	1140	1183	1264	1330	1352	880
55°	843	901	1005	1051	1056	753
65°	513	604	675	695	703	510
75°	229	299	348	403	418	246
85°	44	61	84	96	101	56
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1850.7	1850.7	1850.7	1850.7	1850.7
2.5°	1852.0	1848.1	1842.9	1849.4	1853.3
5°	1845.5	1841.6	1837.7	1845.5	1848.1
7.5°	1832.5	1829.9	1828.6	1837.7	1841.6
10°	1815.7	1813.1	1814.4	1827.3	1829.9
12.5°	1792.3	1793.6	1797.5	1811.8	1817.0
15°	1765.0	1767.6	1776.7	1793.6	1800.1
17.5°	1736.4	1737.7	1752.0	1772.8	1779.3
20°	1698.8	1706.6	1724.7	1749.4	1758.5
22.5°	1659.8	1668.9	1689.7	1722.1	1732.5
25°	1615.6	1626.0	1657.2	1692.3	1704.0
27.5°	1566.3	1581.9	1616.9	1658.5	1675.4
30°	1516.9	1533.8	1576.7	1620.8	1636.4
32.5°	1462.4	1480.6	1529.9	1580.6	1598.8
35°	1405.2	1428.6	1484.5	1535.1	1554.6
37.5°	1345.5	1370.2	1432.5	1491.0	1514.3
40°	1278.0	1309.1	1378.0	1440.3	1459.8
42.5°	1210.4	1248.1	1320.8	1387.1	1407.8
45°	1140.3	1183.2	1263.7	1329.9	1352.0
47.5°	1072.8	1115.6	1203.9	1268.9	1287.1
50°	997.4	1049.4	1141.6	1203.9	1219.5
52.5°	923.4	976.7	1072.8	1132.5	1141.6
55°	842.9	901.3	1005.2	1050.7	1055.9
57.5°	763.7	828.6	932.5	968.9	970.2
60°	681.8	753.3	850.7	876.7	876.7
62.5°	600.0	681.8	762.4	788.3	785.7
65°	513.0	603.9	675.4	694.8	702.6
67.5°	432.5	529.9	589.6	611.7	631.2
70°	357.2	453.3	496.1	541.6	562.4
72.5°	288.3	379.2	413.0	477.9	493.5
75°	228.6	298.7	348.1	402.6	418.2
77.5°	176.6	222.1	284.4	331.2	340.3
80°	124.7	153.3	216.9	249.4	255.9
82.5°	83.1	105.2	150.7	174.0	181.8
85°	44.2	61.0	84.4	96.1	101.3
87.5°	16.9	24.7	28.6	31.2	32.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)