

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: P238780

Luminaire Tested: **14EN-LD2-51-UNV-L850-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P238780
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1710-395-5)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14EN-LD2-51-UNV-L850-CD1-U
Description: METALUX ENCOUNTER 1X4 LED TROFFER
STANDARD OPTION
Light Source: (224)5000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5679.9 lumens
Efficiency: N/A
Efficacy: 127.1 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 1' x L: 3.83' x H: 0')
CIE Type: Direct

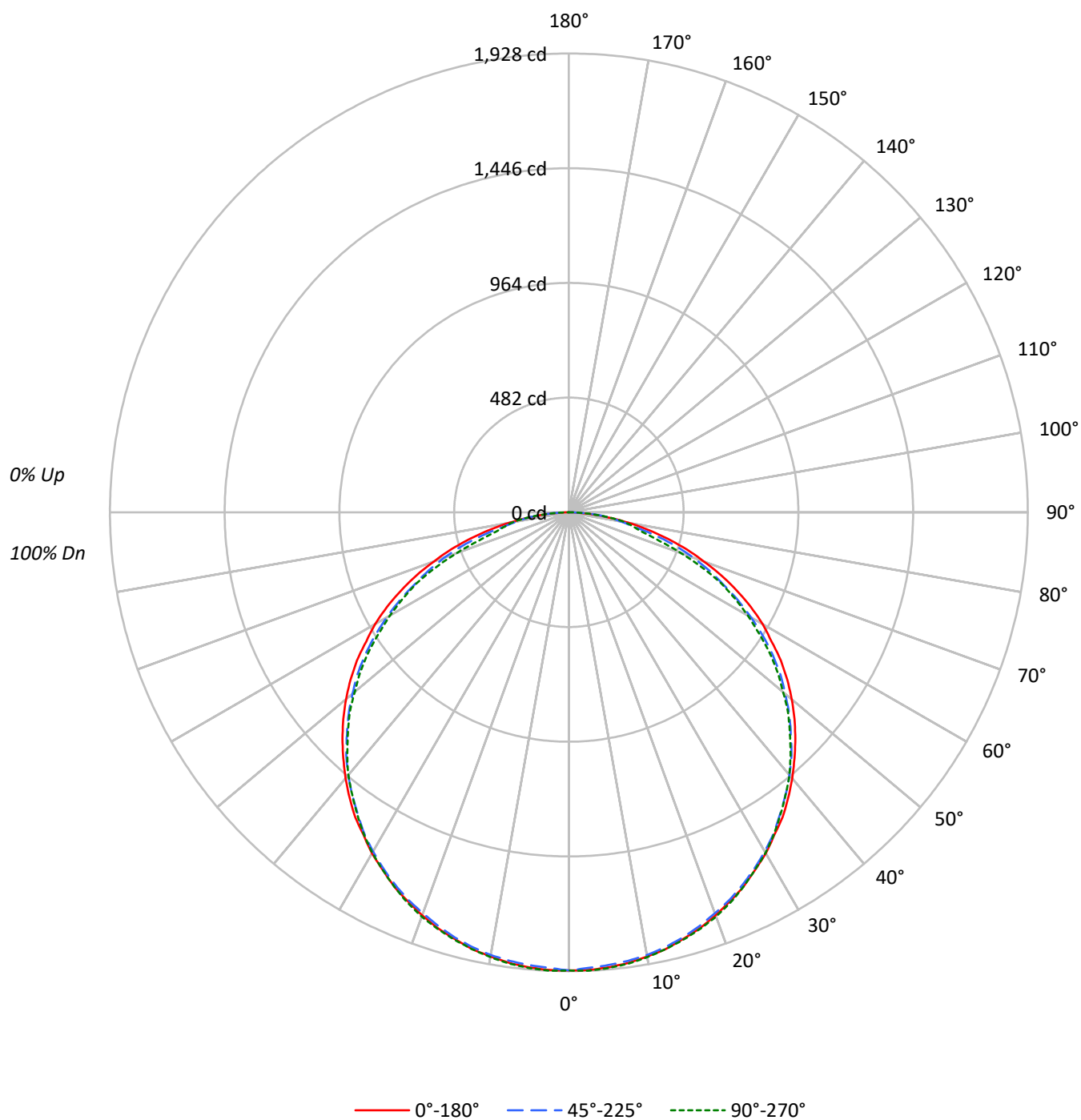
Input Watts (W): 44.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P238780

CATALOG NUMBER: 14EN-LD2-51-UNV-L850-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P238780

CATALOG NUMBER: 14EN-LD2-51-UNV-L850-CD1-U

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	109	104	99	95	106	101	97	94	97	94	91		93	90	88		90
2	99	90	83	77	96	88	82	76	85	79	75		81	77	73		78
3	90	79	71	64	87	77	70	63	74	68	62		72	66	61		69
4	82	70	61	54	80	68	60	54	66	59	53		64	57	52		61
5	75	62	53	46	73	61	53	46	59	51	46		57	50	45		55
6	69	56	47	40	68	55	46	40	53	46	40		51	45	39		50
7	64	51	42	36	63	50	41	35	48	41	35		47	40	35		45
8	60	46	38	32	58	45	37	32	44	37	31		43	36	31		42
9	56	42	34	28	54	42	34	28	41	33	28		40	33	28		38
10	52	39	31	26	51	39	31	26	38	30	26		37	30	25		36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5405	5405	5405
5°	5409	5383	5417
10°	5403	5386	5411
15°	5395	5378	5404
20°	5384	5357	5402
25°	5378	5350	5378
30°	5365	5336	5355
35°	5363	5302	5312
40°	5350	5284	5284
45°	5342	5235	5211
50°	5339	5182	5129
55°	5322	5116	5042
60°	5278	4958	4874
65°	5168	4749	4689
70°	4956	4561	4117
75°	4659	4105	3453
80°	4128	3545	3884
85°	3193	3676	3483



TEST NUMBER: P238780

CATALOG NUMBER: 14EN-LD2-51-UNV-L850-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.3	3.2
10°-20°	523.5	9.2
20°-30°	798.0	14.0
30°-40°	971.7	17.1
40°-50°	1021.7	18.0
50°-60°	937.9	16.5
60°-70°	720.5	12.7
70°-80°	402.2	7.1
80°-90°	122.1	2.1
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°	1503.8	26.5
0°-40°	2475.5	43.6
0°-60°	4435.1	78.1
0°-90°	5679.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5679.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1925	1925	1925	1925	1925	
5°	1919	1919	1910	1919	1922	182
15°	1856	1856	1850	1856	1859	524
25°	1736	1730	1727	1733	1736	799
35°	1565	1559	1547	1550	1550	978
45°	1345	1336	1318	1312	1312	1038
55°	1087	1078	1045	1027	1030	969
65°	778	757	715	706	706	768
75°	429	408	378	327	318	454
85°	99	102	114	111	108	120
90°	0	0	0	0	0	



TEST NUMBER: P238780

CATALOG NUMBER: 14EN-LD2-51-UNV-L850-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1924.9	1924.9	1924.9	1924.9	1924.9
2.5°	1924.9	1924.9	1915.9	1924.9	1927.9
5°	1918.9	1918.9	1909.9	1918.9	1921.9
7.5°	1909.9	1909.9	1900.9	1906.9	1912.9
10°	1894.9	1894.9	1888.9	1894.9	1897.9
12.5°	1879.9	1876.9	1870.9	1876.9	1879.9
15°	1855.9	1855.9	1849.9	1855.9	1858.9
17.5°	1831.8	1828.8	1822.8	1831.8	1834.8
20°	1801.8	1798.8	1792.8	1801.8	1807.8
22.5°	1768.8	1765.8	1762.8	1771.8	1774.8
25°	1735.7	1729.7	1726.7	1732.7	1735.7
27.5°	1693.7	1690.7	1687.7	1690.7	1693.7
30°	1654.7	1648.7	1645.7	1645.7	1651.7
32.5°	1606.6	1603.6	1600.6	1603.6	1603.6
35°	1564.6	1558.6	1546.6	1549.6	1549.6
37.5°	1513.5	1504.5	1495.5	1495.5	1495.5
40°	1459.5	1453.5	1441.4	1438.4	1441.4
42.5°	1402.4	1396.4	1384.4	1375.4	1378.4
45°	1345.3	1336.3	1318.3	1312.3	1312.3
47.5°	1285.3	1276.3	1255.3	1246.3	1249.3
50°	1222.2	1210.2	1186.2	1174.2	1174.2
52.5°	1156.2	1144.1	1120.1	1105.1	1105.1
55°	1087.1	1078.1	1045.0	1027.0	1030.0
57.5°	1009.0	1000.0	967.0	945.9	945.9
60°	939.9	921.9	882.9	867.9	867.9
62.5°	861.9	840.8	801.8	783.8	786.8
65°	777.8	756.8	714.7	705.7	705.7
67.5°	693.7	675.7	636.6	621.6	606.6
70°	603.6	585.6	555.6	519.5	501.5
72.5°	519.5	498.5	471.5	417.4	399.4
75°	429.4	408.4	378.4	327.3	318.3
77.5°	342.3	324.3	282.3	270.3	276.3
80°	255.3	249.3	219.2	231.2	240.2
82.5°	171.2	168.2	174.2	180.2	180.2
85°	99.1	102.1	114.1	111.1	108.1
87.5°	42.0	51.1	48.0	48.0	48.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)