

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: P238986

Luminaire Tested: **24EN-LD2-67-UNV-L935-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P238986
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1708-234-34)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24EN-LD2-67-UNV-L935-CD1-U
Description: METALUX ENCOUNTER 2X4 LED TROFFER
STANDARD OPTION
Light Source: (308)3500K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5795.4 lumens
Efficiency: N/A
Efficacy: 103.3 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.29 / 1.4
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

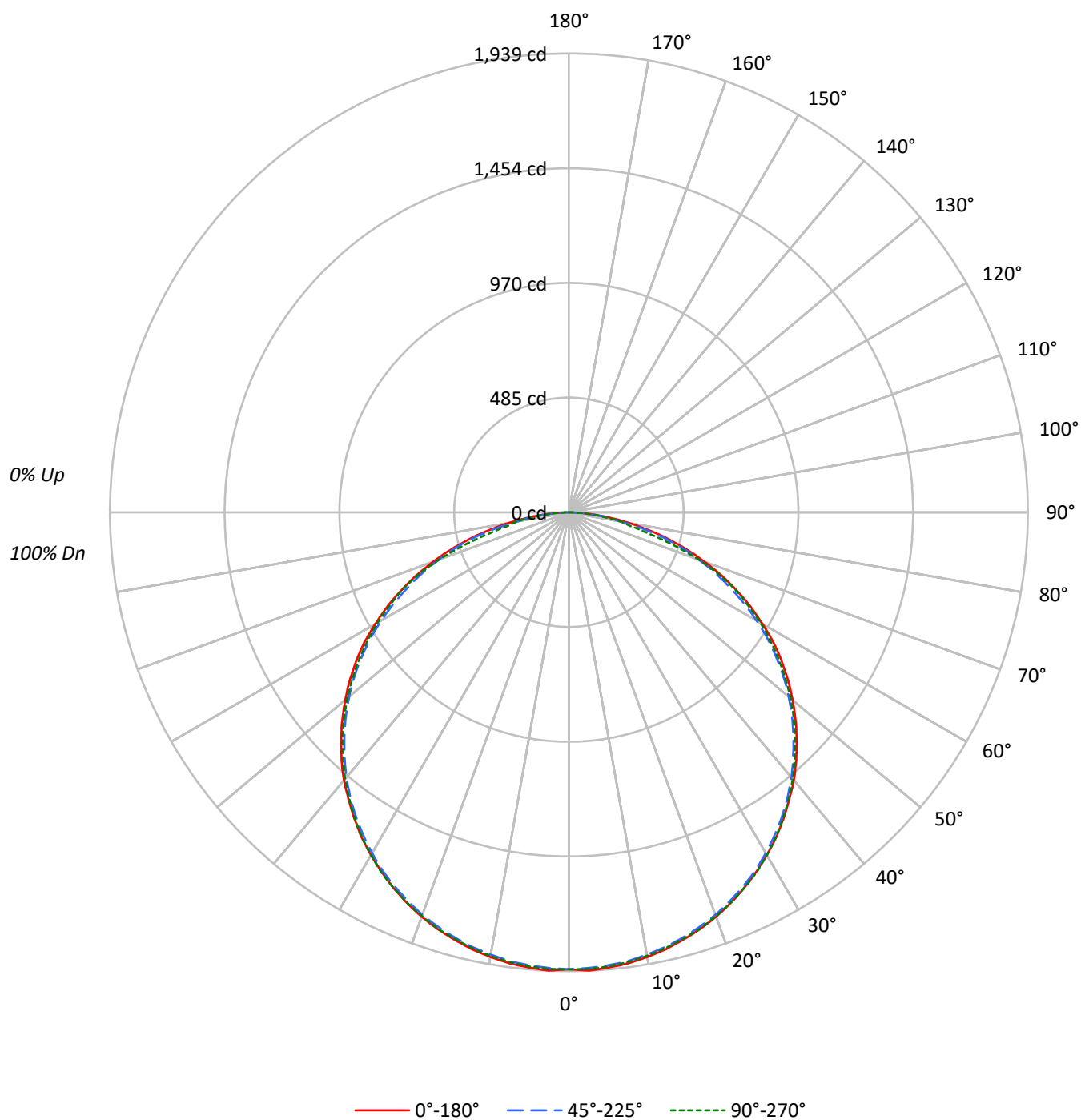
Input Watts (W): 56.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				0
RW	70	50	30	10	70	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		100
1	109	104	99	95	106	101	97	94	97	94	91		93	90	88		83
2	98	90	83	77	96	88	82	76	84	79	74		81	77	73		69
3	90	79	70	64	87	77	69	63	74	67	62		71	66	61		58
4	82	70	61	54	79	68	60	53	66	58	53		63	57	52		49
5	75	62	53	46	73	61	52	46	59	51	45		57	50	45		42
6	69	56	47	40	67	55	46	40	53	45	40		51	44	39		37
7	64	50	42	35	62	50	41	35	48	40	35		47	40	35		32
8	60	46	37	31	58	45	37	31	44	36	31		43	36	31		29
9	56	42	34	28	54	42	34	28	40	33	28		39	33	28		26
10	52	39	31	26	51	38	31	25	37	30	25		36	30	25		23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2958	2958	2958
5°	2969	2955	2962
10°	2968	2953	2960
15°	2965	2951	2959
20°	2965	2951	2960
25°	2961	2947	2961
30°	2957	2940	2957
35°	2955	2934	2950
40°	2956	2925	2942
45°	2948	2906	2927
50°	2940	2888	2914
55°	2930	2858	2887
60°	2893	2804	2864
65°	2835	2716	2817
70°	2733	2619	2613
75°	2572	2458	2078
80°	2264	1923	1976
85°	1787	1682	1553



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.9	3.2
10°-20°	526.1	9.1
20°-30°	805.1	13.9
30°-40°	984.0	17.0
40°-50°	1039.9	17.9
50°-60°	963.5	16.6
60°-70°	754.8	13.0
70°-80°	426.7	7.4
80°-90°	112.4	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°	1514.1	26.1
0°-40°	2498.1	43.1
0°-60°	4501.5	77.7
0°-90°	5795.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5795.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1931	1931	1931	1931	1931	
5°	1931	1925	1922	1920	1926	184
15°	1870	1862	1861	1860	1866	528
25°	1752	1745	1744	1744	1752	808
35°	1580	1573	1569	1569	1578	989
45°	1361	1351	1342	1342	1351	1050
55°	1097	1085	1070	1073	1081	980
65°	782	768	750	759	777	773
75°	435	423	415	370	351	457
85°	102	96	96	91	88	120
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1931.4	1931.4	1931.4	1931.4	1931.4
2.5°	1938.6	1930.2	1927.7	1925.3	1931.4
5°	1931.4	1925.3	1921.7	1920.5	1926.5
7.5°	1922.9	1915.6	1913.2	1910.8	1916.8
10°	1908.4	1901.1	1898.7	1897.5	1903.5
12.5°	1891.4	1882.9	1881.7	1880.5	1886.6
15°	1869.6	1862.3	1861.1	1859.9	1866.0
17.5°	1846.6	1839.3	1836.9	1835.7	1844.2
20°	1818.8	1811.5	1810.3	1809.1	1816.3
22.5°	1787.3	1780.0	1777.6	1778.8	1786.1
25°	1752.2	1744.9	1743.7	1743.7	1752.2
27.5°	1713.4	1706.1	1706.1	1706.1	1715.8
30°	1672.2	1666.2	1662.5	1663.8	1672.2
32.5°	1629.9	1620.2	1617.7	1619.0	1627.4
35°	1580.2	1572.9	1569.3	1569.3	1577.8
37.5°	1529.4	1522.1	1517.2	1517.2	1525.7
40°	1478.5	1467.6	1462.8	1460.3	1471.2
42.5°	1421.6	1413.1	1402.2	1402.2	1411.9
45°	1361.0	1351.4	1341.7	1341.7	1351.4
47.5°	1299.3	1289.6	1278.7	1278.7	1288.4
50°	1233.9	1224.2	1212.1	1212.1	1223.0
52.5°	1167.3	1156.4	1143.1	1141.9	1152.8
55°	1097.1	1085.0	1070.4	1072.8	1081.3
57.5°	1025.6	1009.9	995.3	995.3	1008.7
60°	944.5	931.2	915.4	917.9	934.8
62.5°	867.0	850.0	834.3	840.4	854.9
65°	782.2	767.7	749.5	759.2	777.4
67.5°	698.7	682.9	668.4	680.5	689.0
70°	610.3	595.8	584.9	584.9	583.6
72.5°	521.9	508.6	506.2	483.1	468.6
75°	434.7	422.6	415.3	370.5	351.2
77.5°	343.9	340.3	317.3	270.0	264.0
80°	256.7	259.1	218.0	219.2	224.0
82.5°	176.8	173.2	163.5	156.2	153.8
85°	101.7	95.7	95.7	90.8	88.4
87.5°	33.9	37.5	37.5	37.5	38.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)