

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: P238984

Luminaire Tested: **24EN-LD2-58-UNV-L950-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P238984
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-LD2-58-UNV-L950-CD1-U
Description: METALUX ENCOUNTER 2X4 LED TROFFER
STANDARD OPTION
Light Source: (308)5000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5572.8 lumens
Efficiency: N/A
Efficacy: 118.6 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

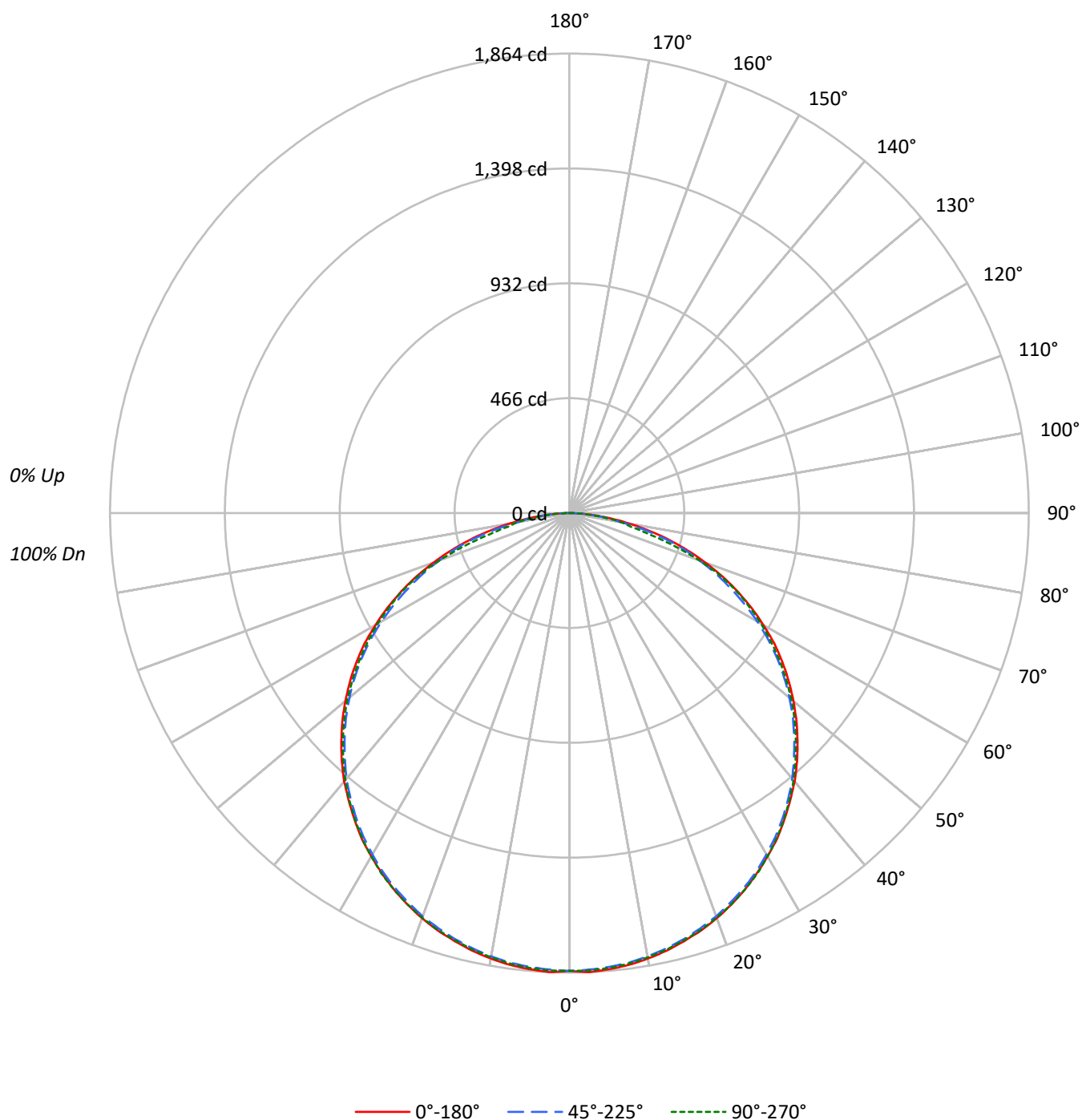
Input Watts (W): 47
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	109	104	99	95	106	101	97	94		97	94	91		93	90	88		90	87	85
2	98	90	83	77	96	88	82	76		84	79	74		81	77	73		78	74	71
3	90	79	70	64	87	77	69	63		74	67	62		71	66	61		69	64	60
4	82	70	61	54	79	68	60	53		66	58	53		63	57	52		61	56	51
5	75	62	53	46	73	61	52	46		59	51	45		57	50	45		55	49	44
6	69	56	47	40	67	55	46	40		53	45	40		51	44	39		50	44	39
7	64	50	42	35	62	50	41	35		48	40	35		47	40	35		45	39	34
8	60	46	37	31	58	45	37	31		44	36	31		43	36	31		41	35	31
9	56	42	34	28	54	42	34	28		40	33	28		39	33	28		38	32	28
10	52	39	31	26	51	38	31	25		37	30	25		36	30	25		35	29	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2845	2845	2845
5°	2855	2841	2848
10°	2854	2839	2847
15°	2851	2838	2845
20°	2851	2837	2847
25°	2847	2834	2847
30°	2844	2827	2844
35°	2841	2821	2837
40°	2843	2812	2829
45°	2835	2794	2815
50°	2827	2777	2802
55°	2817	2749	2777
60°	2782	2697	2754
65°	2726	2612	2709
70°	2628	2519	2513
75°	2474	2364	1998
80°	2177	1849	1900
85°	1719	1617	1494



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	175.9	3.2
10°-20°	505.9	9.1
20°-30°	774.1	13.9
30°-40°	946.2	17.0
40°-50°	999.9	17.9
50°-60°	926.4	16.6
60°-70°	725.8	13.0
70°-80°	410.4	7.4
80°-90°	108.1	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°	1456.0	26.1
0°-40°	2402.2	43.1
0°-60°	4328.6	77.7
0°-90°	5572.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5572.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1857	1857	1857	1857	1857	
5°	1857	1851	1848	1847	1852	177
15°	1798	1791	1790	1788	1794	508
25°	1685	1678	1677	1677	1685	777
35°	1520	1512	1509	1509	1517	951
45°	1309	1299	1290	1290	1299	1010
55°	1055	1043	1029	1032	1040	942
65°	752	738	721	730	748	744
75°	418	406	399	356	338	440
85°	98	92	92	87	85	115
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1857.2	1857.2	1857.2	1857.2	1857.2
2.5°	1864.2	1856.0	1853.7	1851.4	1857.2
5°	1857.2	1851.4	1847.9	1846.7	1852.5
7.5°	1849.0	1842.0	1839.7	1837.4	1843.2
10°	1835.1	1828.1	1825.7	1824.6	1830.4
12.5°	1818.8	1810.6	1809.4	1808.3	1814.1
15°	1797.8	1790.8	1789.7	1788.5	1794.3
17.5°	1775.7	1768.7	1766.4	1765.2	1773.4
20°	1748.9	1741.9	1740.7	1739.6	1746.6
22.5°	1718.6	1711.6	1709.3	1710.5	1717.5
25°	1684.9	1677.9	1676.7	1676.7	1684.9
27.5°	1647.6	1640.6	1640.6	1640.6	1649.9
30°	1608.0	1602.2	1598.7	1599.9	1608.0
32.5°	1567.3	1557.9	1555.6	1556.8	1564.9
35°	1519.5	1512.5	1509.0	1509.0	1517.2
37.5°	1470.6	1463.6	1459.0	1459.0	1467.1
40°	1421.7	1411.2	1406.6	1404.2	1414.7
42.5°	1367.0	1358.8	1348.4	1348.4	1357.7
45°	1308.8	1299.4	1290.1	1290.1	1299.4
47.5°	1249.4	1240.1	1229.6	1229.6	1238.9
50°	1186.5	1177.2	1165.5	1165.5	1176.0
52.5°	1122.5	1112.0	1099.2	1098.0	1108.5
55°	1054.9	1043.3	1029.3	1031.6	1039.8
57.5°	986.2	971.1	957.1	957.1	969.9
60°	908.2	895.4	880.3	882.6	898.9
62.5°	833.7	817.4	802.3	808.1	822.1
65°	752.2	738.2	720.8	730.1	747.5
67.5°	671.8	656.7	642.7	654.4	662.5
70°	586.8	572.9	562.4	562.4	561.2
72.5°	501.8	489.0	486.7	464.6	450.6
75°	418.0	406.4	399.4	356.3	337.7
77.5°	330.7	327.2	305.1	259.7	253.8
80°	246.8	249.2	209.6	210.8	215.4
82.5°	170.0	166.5	157.2	150.2	147.9
85°	97.8	92.0	92.0	87.3	85.0
87.5°	32.6	36.1	36.1	36.1	37.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)