

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: P239028

Luminaire Tested: **24ENA-LD2-67-UNV-L950-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P239028
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: 24ENA-LD2-67-UNV-L950-CD1-U
Description: METALUX ENCOUNTER 2X4 LED TROFFER
AIR-VENTED OPTION
Light Source: (308)5000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6264.4 lumens
Efficiency: N/A
Efficacy: 111.7 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.29 / 1.4
Luminous Opening: Rectangular (W 1.67' x L: 3.83' x H: 0')
CIE Type: Direct

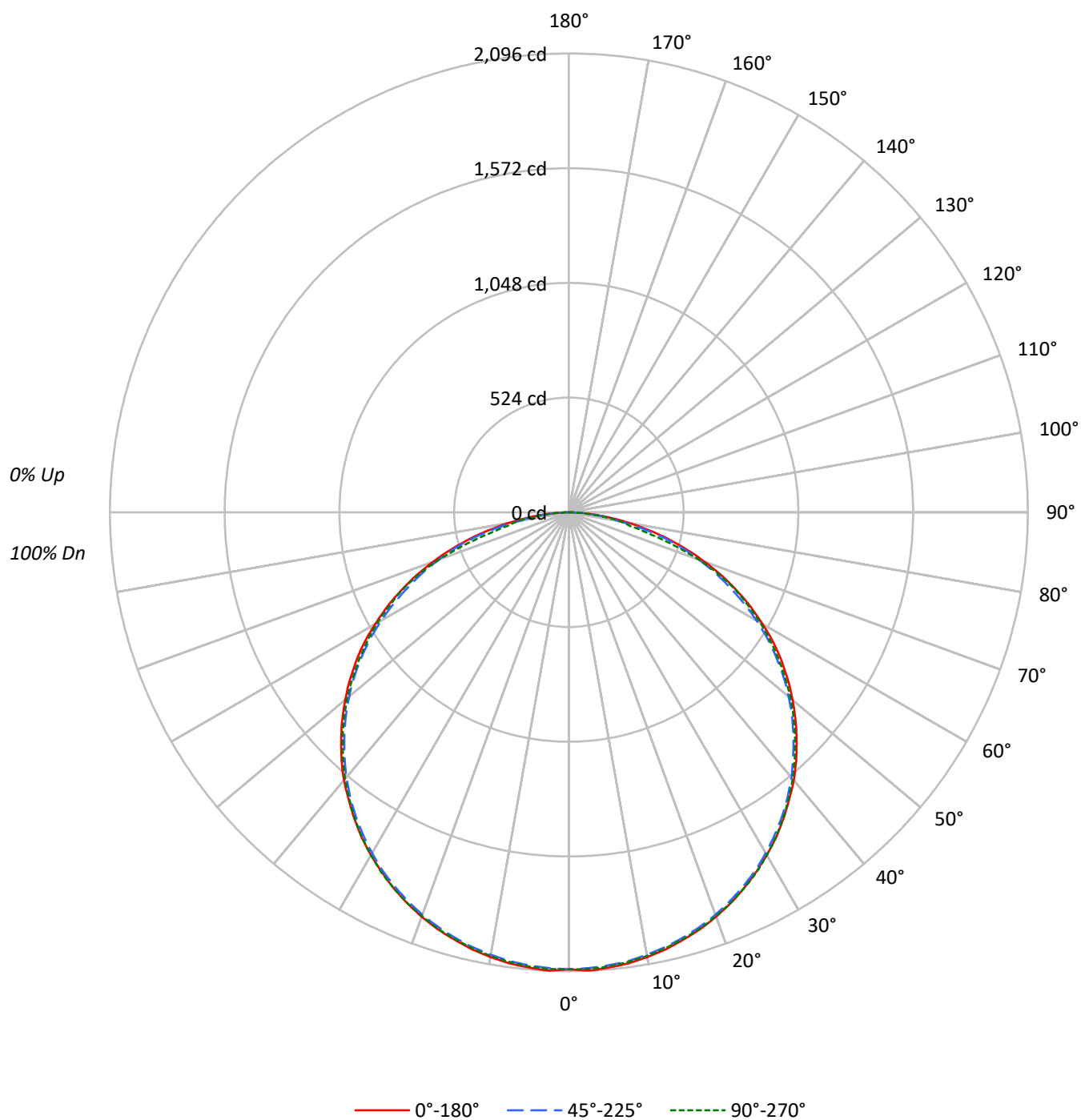
Input Watts (W): 56.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					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°	3517	3517	3517
5°	3531	3513	3522
10°	3529	3511	3520
15°	3525	3509	3518
20°	3525	3508	3520
25°	3521	3504	3521
30°	3517	3496	3517
35°	3513	3489	3508
40°	3515	3477	3498
45°	3505	3455	3480
50°	3496	3434	3465
55°	3483	3399	3433
60°	3440	3334	3405
65°	3371	3230	3350
70°	3250	3114	3108
75°	3059	2922	2471
80°	2692	2286	2349
85°	2124	1999	1846



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	197.7	3.2
10°-20°	568.7	9.1
20°-30°	870.2	13.9
30°-40°	1063.7	17.0
40°-50°	1124.0	17.9
50°-60°	1041.4	16.6
60°-70°	815.9	13.0
70°-80°	461.3	7.4
80°-90°	121.5	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°	1636.7	26.1
0°-40°	2700.3	43.1
0°-60°	4865.8	77.7
0°-90°	6264.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6264.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2088	2088	2088	2088	2088	
5°	2088	2081	2077	2076	2082	199
15°	2021	2013	2012	2010	2017	571
25°	1894	1886	1885	1885	1894	873
35°	1708	1700	1696	1696	1706	1069
45°	1471	1461	1450	1450	1461	1135
55°	1186	1173	1157	1160	1169	1059
65°	846	830	810	821	840	836
75°	470	457	449	400	380	494
85°	110	103	103	98	96	130
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2087.7	2087.7	2087.7	2087.7	2087.7
2.5°	2095.5	2086.4	2083.8	2081.1	2087.7
5°	2087.7	2081.1	2077.2	2075.9	2082.4
7.5°	2078.5	2070.7	2068.0	2065.4	2072.0
10°	2062.8	2055.0	2052.3	2051.0	2057.6
12.5°	2044.5	2035.3	2034.0	2032.7	2039.2
15°	2020.9	2013.1	2011.8	2010.5	2017.0
17.5°	1996.1	1988.2	1985.6	1984.3	1993.4
20°	1966.0	1958.1	1956.8	1955.5	1963.3
22.5°	1931.9	1924.1	1921.4	1922.8	1930.6
25°	1894.0	1886.1	1884.8	1884.8	1894.0
27.5°	1852.1	1844.2	1844.2	1844.2	1854.7
30°	1807.6	1801.0	1797.1	1798.4	1807.6
32.5°	1761.8	1751.3	1748.7	1750.0	1759.1
35°	1708.1	1700.2	1696.3	1696.3	1705.5
37.5°	1653.1	1645.3	1640.0	1640.0	1649.2
40°	1598.2	1586.4	1581.1	1578.5	1590.3
42.5°	1536.6	1527.5	1515.7	1515.7	1526.2
45°	1471.2	1460.7	1450.2	1450.2	1460.7
47.5°	1404.4	1394.0	1382.2	1382.2	1392.7
50°	1333.8	1323.3	1310.2	1310.2	1322.0
52.5°	1261.8	1250.0	1235.6	1234.3	1246.1
55°	1185.9	1172.8	1157.1	1159.7	1168.8
57.5°	1108.6	1091.6	1075.9	1075.9	1090.3
60°	1020.9	1006.5	989.5	992.1	1010.5
62.5°	937.2	918.8	901.8	908.4	924.1
65°	845.5	829.8	810.2	820.7	840.3
67.5°	755.2	738.2	722.5	735.6	744.8
70°	659.7	644.0	632.2	632.2	630.9
72.5°	564.1	549.7	547.1	522.2	506.5
75°	469.9	456.8	448.9	400.5	379.6
77.5°	371.7	367.8	342.9	291.9	285.3
80°	277.5	280.1	235.6	236.9	242.1
82.5°	191.1	187.2	176.7	168.8	166.2
85°	109.9	103.4	103.4	98.2	95.5
87.5°	36.6	40.6	40.6	40.6	41.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)