

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: P239033

Luminaire Tested: **24ENA-LD2-74-UNV-L930-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P239033
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-LD2-74-UNV-L930-CD1-U
Description: METALUX ENCOUNTER 2X4 LED TROFFER
AIR-VENTED OPTION
Light Source: (308)3000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6115.0 lumens
Efficiency: N/A
Efficacy: 96.1 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

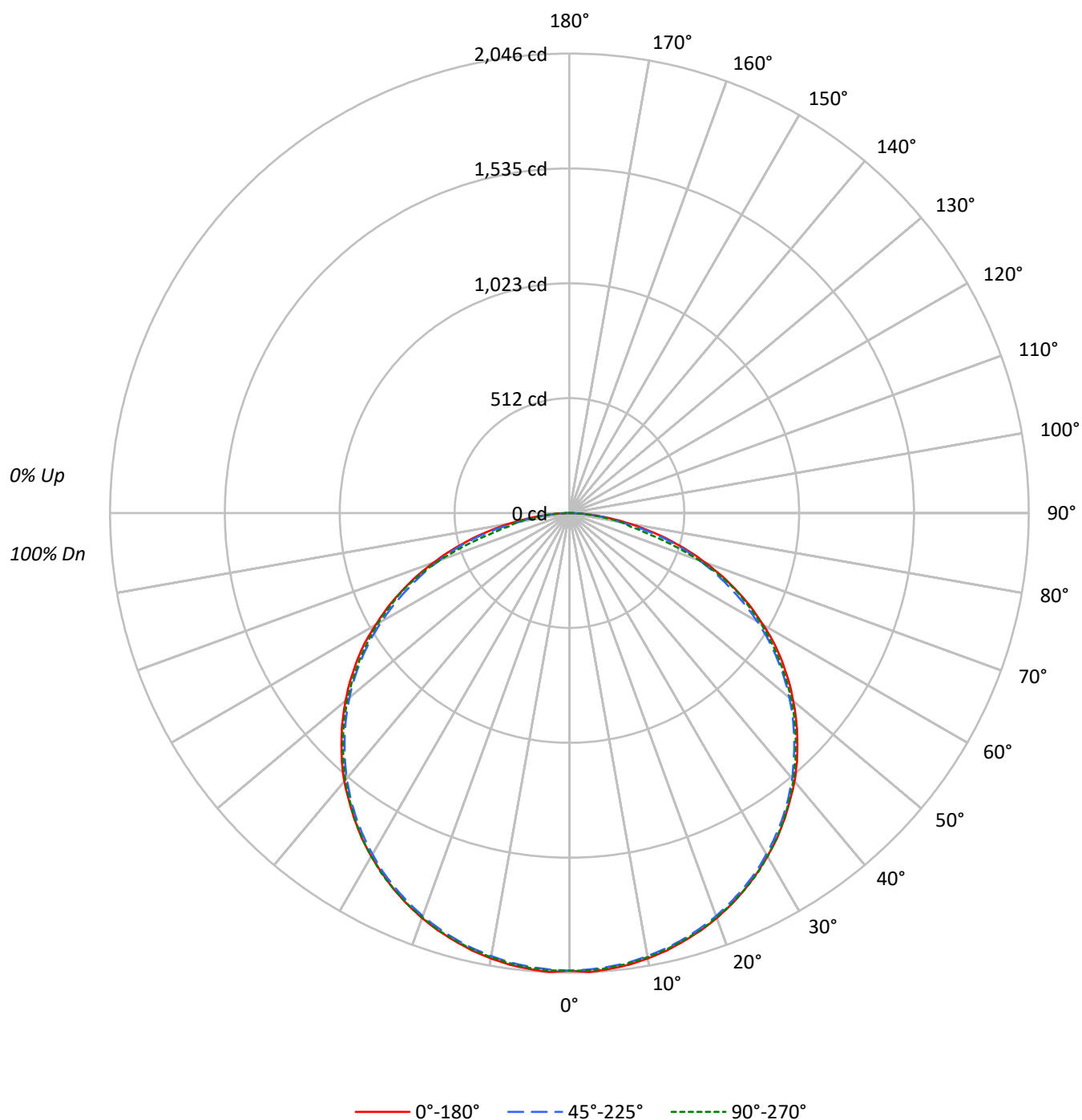
Input Watts (W): 63.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3433	3433	3433
5°	3447	3429	3438
10°	3445	3427	3436
15°	3441	3425	3434
20°	3441	3425	3436
25°	3437	3420	3437
30°	3433	3413	3433
35°	3429	3406	3424
40°	3431	3394	3414
45°	3422	3373	3397
50°	3412	3352	3382
55°	3400	3318	3351
60°	3358	3255	3324
65°	3290	3153	3270
70°	3172	3040	3033
75°	2986	2852	2412
80°	2628	2232	2294
85°	2074	1950	1804



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	193.0	3.2
10°-20°	555.1	9.1
20°-30°	849.5	13.9
30°-40°	1038.3	17.0
40°-50°	1097.2	17.9
50°-60°	1016.6	16.6
60°-70°	796.4	13.0
70°-80°	450.3	7.4
80°-90°	118.6	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°	1597.6	26.1
0°-40°	2635.9	43.1
0°-60°	4749.7	77.7
0°-90°	6115.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6115.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2038	2038	2038	2038	2038	
5°	2038	2032	2028	2026	2033	194
15°	1973	1965	1964	1962	1969	557
25°	1849	1841	1840	1840	1849	852
35°	1667	1660	1656	1656	1665	1044
45°	1436	1426	1416	1416	1426	1108
55°	1158	1145	1130	1132	1141	1034
65°	825	810	791	801	820	816
75°	459	446	438	391	370	482
85°	107	101	101	96	93	126
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2037.9	2037.9	2037.9	2037.9	2037.9
2.5°	2045.5	2036.6	2034.0	2031.5	2037.9
5°	2037.9	2031.5	2027.7	2026.4	2032.8
7.5°	2028.9	2021.3	2018.7	2016.2	2022.5
10°	2013.6	2005.9	2003.4	2002.1	2008.5
12.5°	1995.7	1986.8	1985.5	1984.2	1990.6
15°	1972.7	1965.0	1963.8	1962.5	1968.9
17.5°	1948.4	1940.8	1938.2	1936.9	1945.9
20°	1919.0	1911.4	1910.1	1908.8	1916.5
22.5°	1885.8	1878.2	1875.6	1876.9	1884.6
25°	1848.8	1841.1	1839.8	1839.8	1848.8
27.5°	1807.9	1800.2	1800.2	1800.2	1810.4
30°	1764.5	1758.1	1754.2	1755.5	1764.5
32.5°	1719.7	1709.5	1707.0	1708.2	1717.2
35°	1667.4	1659.7	1655.9	1655.9	1664.8
37.5°	1613.7	1606.0	1600.9	1600.9	1609.9
40°	1560.0	1548.5	1543.4	1540.9	1552.4
42.5°	1500.0	1491.0	1479.5	1479.5	1489.8
45°	1436.1	1425.9	1415.7	1415.7	1425.9
47.5°	1370.9	1360.7	1349.2	1349.2	1359.4
50°	1301.9	1291.7	1278.9	1278.9	1290.4
52.5°	1231.7	1220.2	1206.1	1204.8	1216.3
55°	1157.6	1144.8	1129.5	1132.0	1141.0
57.5°	1082.2	1065.6	1050.2	1050.2	1064.3
60°	996.6	982.5	965.9	968.5	986.4
62.5°	914.8	896.9	880.3	886.7	902.0
65°	825.4	810.0	790.9	801.1	820.3
67.5°	737.2	720.6	705.3	718.0	727.0
70°	643.9	628.6	617.1	617.1	615.8
72.5°	550.7	536.6	534.1	509.8	494.5
75°	458.7	445.9	438.2	391.0	370.5
77.5°	362.9	359.0	334.7	284.9	278.5
80°	270.9	273.4	230.0	231.3	236.4
82.5°	186.5	182.7	172.5	164.8	162.3
85°	107.3	100.9	100.9	95.8	93.3
87.5°	35.8	39.6	39.6	39.6	40.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)