

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: P239005

Luminaire Tested: **24ENA-LD2-40-UNV-L930-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P239005
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-LD2-40-UNV-L930-CD1-U
Description: METALUX ENCOUNTER 2X4 LED TROFFER
AIR-VENTED OPTION
Light Source: (224)3000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3435.9 lumens
Efficiency: N/A
Efficacy: 101.4 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

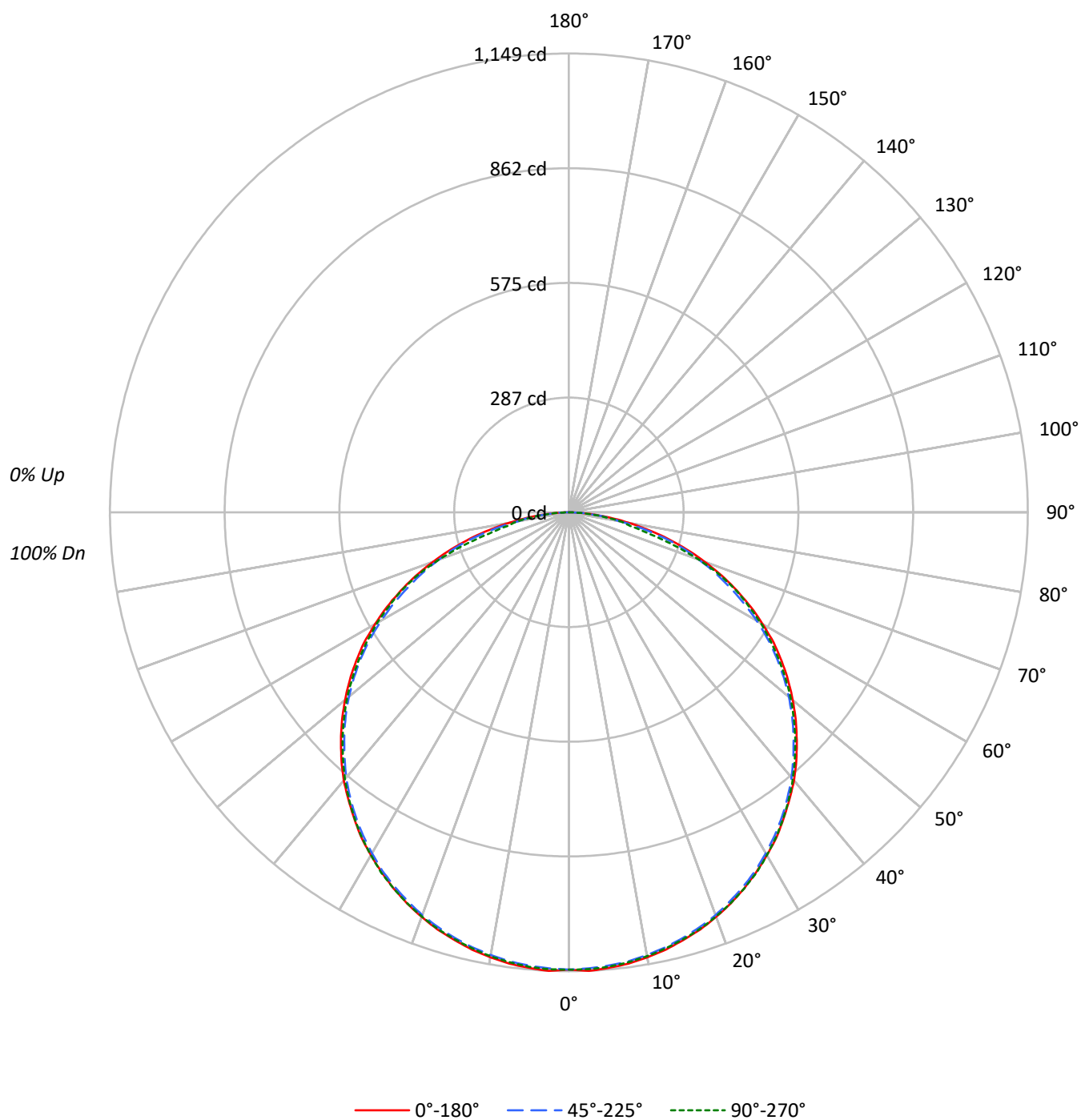
Input Watts (W): 33.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
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	98	90	83	77	96	88	82	76		84	79	74			81	77	73			78
3	90	79	70	64	87	77	69	63		74	67	62			71	66	61			69
4	82	70	61	54	79	68	60	53		66	58	53			63	57	52			61
5	75	62	53	46	73	61	52	46		59	51	45			57	50	45			55
6	69	56	47	40	67	55	46	40		53	45	40			51	44	39			50
7	64	50	42	35	62	50	41	35		48	40	35			47	40	35			45
8	60	46	37	31	58	45	37	31		44	36	31			43	36	31			41
9	56	42	34	28	54	42	34	28		40	33	28			39	33	28			38
10	52	39	31	26	51	38	31	25		37	30	25			36	30	25			35

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1929	1929	1929
5°	1937	1927	1932
10°	1936	1926	1931
15°	1933	1925	1930
20°	1933	1924	1931
25°	1931	1922	1931
30°	1929	1918	1929
35°	1927	1914	1924
40°	1928	1907	1918
45°	1923	1895	1909
50°	1918	1883	1901
55°	1910	1864	1883
60°	1887	1829	1867
65°	1849	1772	1837
70°	1782	1708	1704
75°	1678	1603	1355
80°	1477	1254	1288
85°	1166	1096	1013



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.5	3.2
10°-20°	311.9	9.1
20°-30°	477.3	13.9
30°-40°	583.4	17.0
40°-50°	616.5	17.9
50°-60°	571.2	16.6
60°-70°	447.5	13.0
70°-80°	253.0	7.4
80°-90°	66.6	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°	897.7	26.1
0°-40°	1481.1	43.1
0°-60°	2668.8	77.7
0°-90°	3435.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3435.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1145	1145	1145	1145	1145	
5°	1145	1142	1139	1139	1142	109
15°	1108	1104	1103	1103	1106	313
25°	1039	1034	1034	1034	1039	479
35°	937	933	930	930	935	587
45°	807	801	795	795	801	623
55°	650	643	635	636	641	581
65°	464	455	444	450	461	459
75°	258	251	246	220	208	271
85°	60	57	57	54	52	71
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1145.1	1145.1	1145.1	1145.1	1145.1
2.5°	1149.4	1144.4	1142.9	1141.5	1145.1
5°	1145.1	1141.5	1139.3	1138.6	1142.2
7.5°	1140.0	1135.7	1134.3	1132.9	1136.5
10°	1131.4	1127.1	1125.7	1125.0	1128.6
12.5°	1121.4	1116.4	1115.6	1114.9	1118.5
15°	1108.5	1104.2	1103.4	1102.7	1106.3
17.5°	1094.8	1090.5	1089.1	1088.4	1093.4
20°	1078.3	1074.0	1073.3	1072.6	1076.9
22.5°	1059.6	1055.3	1053.9	1054.6	1058.9
25°	1038.8	1034.5	1033.8	1033.8	1038.8
27.5°	1015.8	1011.5	1011.5	1011.5	1017.3
30°	991.4	987.8	985.7	986.4	991.4
32.5°	966.3	960.6	959.1	959.8	964.9
35°	936.9	932.6	930.4	930.4	935.4
37.5°	906.7	902.4	899.5	899.5	904.6
40°	876.6	870.1	867.2	865.8	872.3
42.5°	842.8	837.8	831.3	831.3	837.1
45°	806.9	801.2	795.4	795.4	801.2
47.5°	770.3	764.6	758.1	758.1	763.9
50°	731.6	725.8	718.6	718.6	725.1
52.5°	692.1	685.6	677.7	677.0	683.5
55°	650.4	643.3	634.6	636.1	641.1
57.5°	608.1	598.7	590.1	590.1	598.0
60°	560.0	552.1	542.7	544.2	554.2
62.5°	514.0	504.0	494.6	498.2	506.8
65°	463.8	455.2	444.4	450.1	460.9
67.5°	414.2	404.9	396.3	403.5	408.5
70°	361.8	353.2	346.8	346.8	346.0
72.5°	309.4	301.5	300.1	286.4	277.8
75°	257.7	250.6	246.2	219.7	208.2
77.5°	203.9	201.7	188.1	160.1	156.5
80°	152.2	153.6	129.2	129.9	132.8
82.5°	104.8	102.7	96.9	92.6	91.2
85°	60.3	56.7	56.7	53.8	52.4
87.5°	20.1	22.3	22.3	22.3	23.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)