

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: P238922

Luminaire Tested: **24ENA-LD2-34-UNV-L835-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P238922
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-LD2-34-UNV-L835-CD1-U
Description: METALUX ENCOUNTER 2X4 LED TROFFER
AIR-VENTED OPTION
Light Source: (224)3500K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3519.9 lumens
Efficiency: N/A
Efficacy: 122.6 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

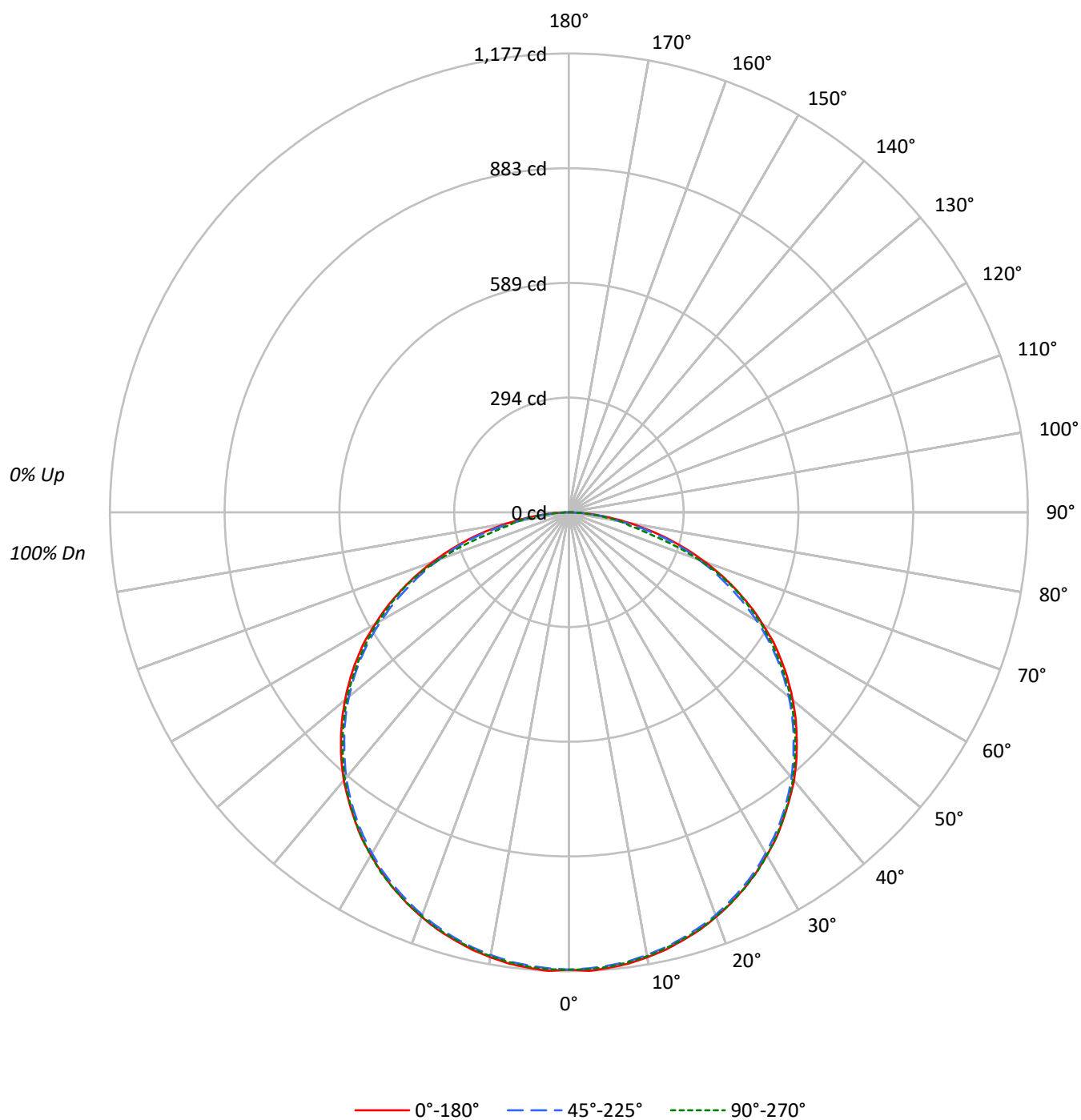
Input Watts (W): 28.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1976	1976	1976
5°	1984	1974	1979
10°	1983	1973	1978
15°	1981	1972	1977
20°	1980	1971	1978
25°	1978	1969	1978
30°	1976	1964	1976
35°	1974	1960	1971
40°	1975	1954	1965
45°	1969	1942	1956
50°	1964	1930	1947
55°	1957	1910	1929
60°	1933	1873	1913
65°	1894	1815	1882
70°	1826	1750	1746
75°	1719	1642	1388
80°	1513	1285	1320
85°	1195	1123	1038



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.1	3.2
10°-20°	319.5	9.1
20°-30°	489.0	13.9
30°-40°	597.7	17.0
40°-50°	631.6	17.9
50°-60°	585.2	16.6
60°-70°	458.5	13.0
70°-80°	259.2	7.4
80°-90°	68.3	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°	919.6	26.1
0°-40°	1517.3	43.1
0°-60°	2734.0	77.7
0°-90°	3519.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3519.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1173	1173	1173	1173	1173	
5°	1173	1169	1167	1166	1170	112
15°	1136	1131	1130	1130	1133	321
25°	1064	1060	1059	1059	1064	491
35°	960	955	953	953	958	601
45°	827	821	815	815	821	638
55°	666	659	650	652	657	595
65°	475	466	455	461	472	470
75°	264	257	252	225	213	278
85°	62	58	58	55	54	73
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1173.0	1173.0	1173.0	1173.0	1173.0
2.5°	1177.4	1172.3	1170.8	1169.4	1173.0
5°	1173.0	1169.4	1167.2	1166.4	1170.1
7.5°	1167.9	1163.5	1162.0	1160.5	1164.2
10°	1159.1	1154.7	1153.2	1152.4	1156.1
12.5°	1148.8	1143.6	1142.9	1142.1	1145.8
15°	1135.5	1131.1	1130.4	1129.6	1133.3
17.5°	1121.6	1117.1	1115.7	1114.9	1120.1
20°	1104.6	1100.2	1099.5	1098.8	1103.2
22.5°	1085.5	1081.1	1079.6	1080.4	1084.8
25°	1064.2	1059.8	1059.0	1059.0	1064.2
27.5°	1040.7	1036.2	1036.2	1036.2	1042.1
30°	1015.7	1012.0	1009.8	1010.5	1015.7
32.5°	989.9	984.0	982.6	983.3	988.4
35°	959.8	955.3	953.1	953.1	958.3
37.5°	928.9	924.5	921.5	921.5	926.7
40°	898.0	891.4	888.4	886.9	893.6
42.5°	863.4	858.3	851.6	851.6	857.5
45°	826.6	820.8	814.9	814.9	820.8
47.5°	789.1	783.3	776.6	776.6	782.5
50°	749.4	743.5	736.2	736.2	742.8
52.5°	709.0	702.4	694.3	693.5	700.1
55°	666.3	659.0	650.1	651.6	656.8
57.5°	622.9	613.4	604.5	604.5	612.6
60°	573.6	565.6	556.0	557.5	567.8
62.5°	526.6	516.3	506.7	510.4	519.2
65°	475.1	466.3	455.2	461.1	472.2
67.5°	424.4	414.8	406.0	413.3	418.5
70°	370.7	361.8	355.2	355.2	354.5
72.5°	317.0	308.9	307.4	293.4	284.6
75°	264.0	256.7	252.3	225.0	213.3
77.5°	208.9	206.7	192.7	164.0	160.3
80°	155.9	157.4	132.4	133.1	136.1
82.5°	107.4	105.2	99.3	94.9	93.4
85°	61.8	58.1	58.1	55.2	53.7
87.5°	20.6	22.8	22.8	22.8	23.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)