

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: P183150

Luminaire Tested: **12EN-LD2-31-UNV-L835-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P183150
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34480)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 12EN-LD2-31-UNV-L835-CD1-U
Description: METALUX ENCOUNTER 1X2 TROFFER

Light Source: EATON LED 3500K
Ballast/Driver: OSRAM ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3179.0 lumens
Efficiency: N/A
Efficacy: 114.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.38
Luminous Opening: Rectangular (W 0.92' x L: 1.92' x H: 0')
CIE Type: Direct

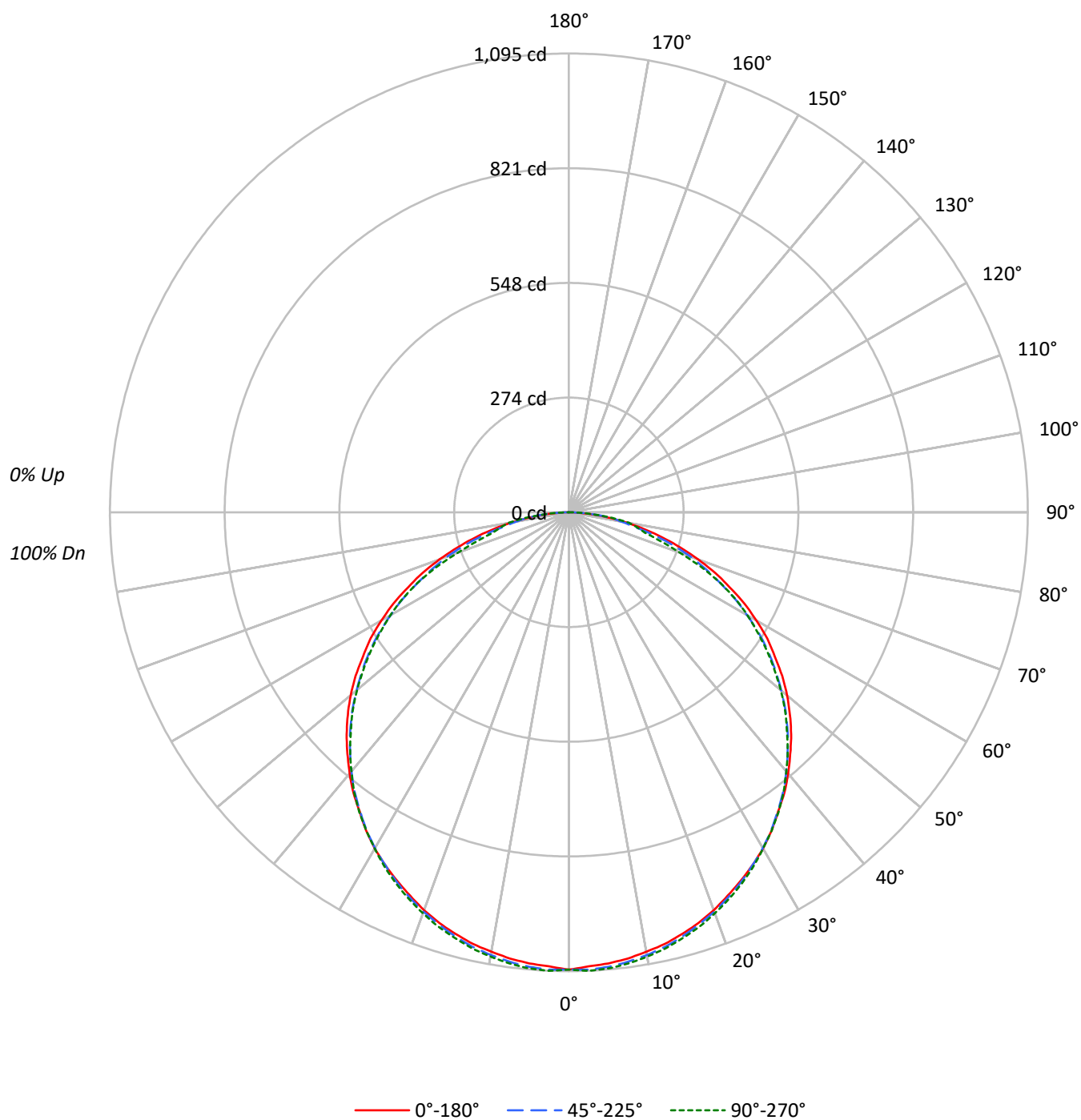
Input Watts (W): 27.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				0
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		0
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		100
1	109	104	99	95	106	101	97	94	97	94	91		93	90	88		83
2	99	90	83	77	96	88	82	76	85	79	75		81	77	73		69
3	90	79	71	64	87	77	70	63	74	68	62		72	66	61		58
4	82	70	61	54	80	69	60	54	66	59	53		64	57	52		49
5	75	62	53	46	73	61	53	46	59	52	46		57	50	45		43
6	70	56	47	40	68	55	47	40	53	46	40		52	45	40		37
7	64	51	42	36	63	50	42	36	48	41	35		47	40	35		33
8	60	46	38	32	58	46	37	32	44	37	31		43	36	31		29
9	56	42	34	29	55	42	34	28	41	33	28		40	33	28		26
10	52	39	31	26	51	39	31	26	38	31	26		37	30	26		24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6685	6685	6685
5°	6646	6695	6719
10°	6624	6673	6698
15°	6610	6643	6669
20°	6586	6612	6638
25°	6560	6578	6604
30°	6555	6546	6555
35°	6513	6503	6523
40°	6508	6455	6455
45°	6498	6395	6372
50°	6478	6301	6289
55°	6409	6211	6168
60°	6327	6019	6035
65°	6139	5754	5774
70°	5874	5517	5041
75°	5437	4964	4431
80°	4872	4403	5151
85°	3922	4386	4386



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.3	3.2
10°-20°	295.5	9.3
20°-30°	448.6	14.1
30°-40°	544.7	17.1
40°-50°	571.0	18.0
50°-60°	522.3	16.4
60°-70°	399.9	12.6
70°-80°	224.5	7.1
80°-90°	69.2	2.2
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°	847.4	26.7
0°-40°	1392.1	43.8
0°-60°	2485.4	78.2
0°-90°	3179.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3179.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1091	1091	1091	1091	1091	
5°	1081	1083	1089	1091	1092	103
15°	1042	1043	1047	1050	1051	294
25°	970	970	973	974	977	448
35°	871	871	870	870	872	546
45°	750	746	738	735	735	578
55°	600	596	582	575	578	537
65°	424	414	397	400	398	420
75°	230	222	210	190	187	244
85°	56	57	62	62	62	66
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1091.2	1091.2	1091.2	1091.2	1091.2
2.5°	1084.6	1087.2	1092.5	1095.2	1095.2
5°	1080.6	1083.2	1088.6	1091.2	1092.5
7.5°	1074.0	1076.6	1081.9	1085.9	1085.9
10°	1064.7	1067.3	1072.6	1076.6	1076.6
12.5°	1055.4	1056.7	1062.0	1064.7	1066.0
15°	1042.1	1043.4	1047.4	1050.1	1051.4
17.5°	1027.5	1027.5	1031.5	1034.1	1036.8
20°	1010.2	1011.6	1014.2	1016.9	1018.2
22.5°	990.3	991.7	994.3	997.0	998.3
25°	970.4	970.4	973.1	974.4	977.0
27.5°	949.2	949.2	949.2	950.5	953.2
30°	926.6	925.3	925.3	923.9	926.6
32.5°	900.1	900.1	898.7	897.4	900.1
35°	870.8	870.8	869.5	869.5	872.2
37.5°	844.3	843.0	840.3	837.7	841.6
40°	813.8	812.4	807.1	804.5	807.1
42.5°	781.9	779.2	772.6	770.0	772.6
45°	750.0	746.1	738.1	735.4	735.4
47.5°	715.5	711.5	700.9	696.9	699.6
50°	679.7	674.4	661.1	658.4	659.8
52.5°	641.2	634.6	621.3	618.6	618.6
55°	600.0	596.1	581.5	574.8	577.5
57.5°	561.5	553.6	537.6	529.7	533.7
60°	516.4	507.1	491.2	487.2	492.5
62.5°	472.6	462.0	446.0	443.4	447.4
65°	423.5	414.2	396.9	399.6	398.3
67.5°	378.3	367.7	353.1	346.5	342.5
70°	327.9	318.6	308.0	289.4	281.4
72.5°	278.8	270.8	260.2	235.0	229.7
75°	229.7	221.7	209.7	189.8	187.2
77.5°	183.2	177.9	160.6	160.6	167.3
80°	138.1	135.4	124.8	139.4	146.0
82.5°	92.9	90.3	100.9	106.2	104.9
85°	55.8	57.1	62.4	62.4	62.4
87.5°	23.9	26.6	27.9	27.9	29.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)