

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: P184030

Luminaire Tested: **12EN-LD2-08-UNV-L850-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P184030
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34514)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 12EN-LD2-08-UNV-L850-CD1-U
Description: METALUX ENCOUNTER 1X2 TROFFER

Light Source: EATON LED 5000K
Ballast/Driver: OSRAM ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 923.5 lumens
Efficiency: N/A
Efficacy: 93.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.38
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

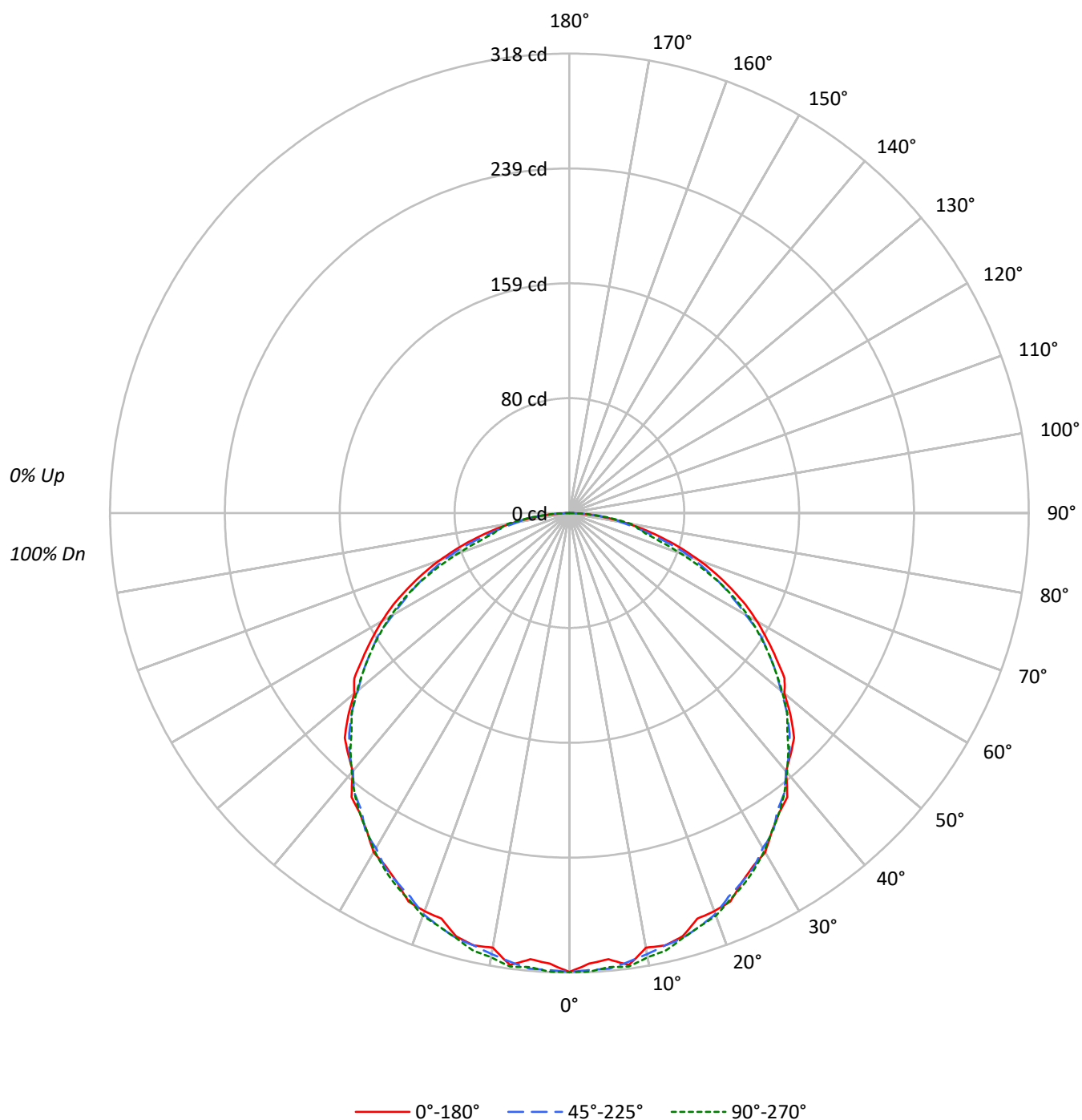
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					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	99	90	83	77	96	88	82	76		85	79	75			81	77	73			78
3	90	79	71	64	87	77	70	63		74	68	62			72	66	61			69
4	82	70	61	54	80	69	60	54		66	59	53			64	57	52			61
5	75	62	53	46	73	61	53	46		59	52	46			57	50	45			55
6	70	56	47	40	68	55	47	40		53	46	40			52	45	40			50
7	64	51	42	36	63	50	42	36		48	41	35			47	40	35			46
8	60	46	38	32	58	46	37	32		44	37	31			43	36	31			42
9	56	42	34	29	55	42	34	28		41	33	28			40	33	28			39
10	53	39	31	26	51	39	31	26		38	31	26			37	30	26			36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1709	1709	1709
5°	1674	1710	1704
10°	1669	1694	1706
15°	1689	1696	1696
20°	1679	1692	1698
25°	1675	1675	1688
30°	1684	1664	1677
35°	1664	1649	1664
40°	1638	1638	1646
45°	1674	1640	1623
50°	1628	1599	1608
55°	1636	1574	1574
60°	1614	1518	1542
65°	1570	1471	1471
70°	1503	1416	1293
75°	1385	1248	1131
80°	1240	1134	1342
85°	1031	1167	1099



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	30.0	3.3
10°-20°	85.8	9.3
20°-30°	130.5	14.1
30°-40°	158.1	17.1
40°-50°	165.9	18.0
50°-60°	151.7	16.4
60°-70°	115.9	12.6
70°-80°	65.2	7.1
80°-90°	20.4	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°	246.3	26.7
0°-40°	404.5	43.8
0°-60°	722.0	78.2
0°-90°	923.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	923.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	318	318	318	318	318	
5°	310	315	316	319	315	30
15°	303	303	304	304	304	85
25°	282	283	282	284	284	130
35°	253	252	251	253	253	159
45°	220	217	216	213	213	168
55°	174	172	168	168	168	156
65°	123	120	116	114	116	122
75°	67	64	60	56	54	71
85°	17	17	19	18	18	19
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	317.6	317.6	317.6	317.6	317.6
2.5°	312.1	316.5	316.5	318.7	317.6
5°	309.9	315.4	316.5	318.7	315.4
7.5°	315.4	314.3	313.2	315.4	316.5
10°	305.4	309.9	309.9	315.4	312.1
12.5°	306.5	307.6	306.5	306.5	309.9
15°	303.2	303.2	304.3	304.3	304.3
17.5°	294.3	298.7	299.9	301.0	299.9
20°	293.2	294.3	295.4	296.5	296.5
22.5°	291.0	288.8	287.6	292.1	289.9
25°	282.1	283.2	282.1	284.3	284.3
27.5°	275.4	275.4	276.5	275.4	277.6
30°	271.0	269.9	267.7	269.9	269.9
32.5°	261.0	262.1	262.1	261.0	261.0
35°	253.2	252.1	251.0	253.2	253.2
37.5°	247.7	242.1	244.3	243.2	244.3
40°	233.2	236.6	233.2	233.2	234.3
42.5°	226.6	225.4	225.4	224.3	224.3
45°	219.9	216.6	215.5	213.2	213.2
47.5°	207.7	207.7	204.3	202.1	204.3
50°	194.4	195.5	191.0	189.9	192.1
52.5°	187.7	184.4	179.9	181.0	179.9
55°	174.4	172.1	167.7	167.7	167.7
57.5°	162.1	161.0	156.6	155.5	155.5
60°	149.9	147.7	141.0	142.2	143.3
62.5°	137.7	134.4	127.7	129.9	129.9
65°	123.3	119.9	115.5	114.4	115.5
67.5°	109.9	105.5	102.2	101.1	98.8
70°	95.5	93.3	90.0	83.3	82.2
72.5°	81.1	77.7	75.5	67.7	66.6
75°	66.6	64.4	60.0	55.5	54.4
77.5°	53.3	52.2	46.6	46.6	48.9
80°	40.0	38.9	36.6	41.1	43.3
82.5°	27.8	26.7	30.0	31.1	31.1
85°	16.7	16.7	18.9	17.8	17.8
87.5°	6.7	7.8	7.8	8.9	8.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)