

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: P184035

Luminaire Tested: **12EN-LD2-13-UNV-L850-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P184035
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-LD2-13-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: 1492.9 lumens
Efficiency: N/A
Efficacy: 122.4 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

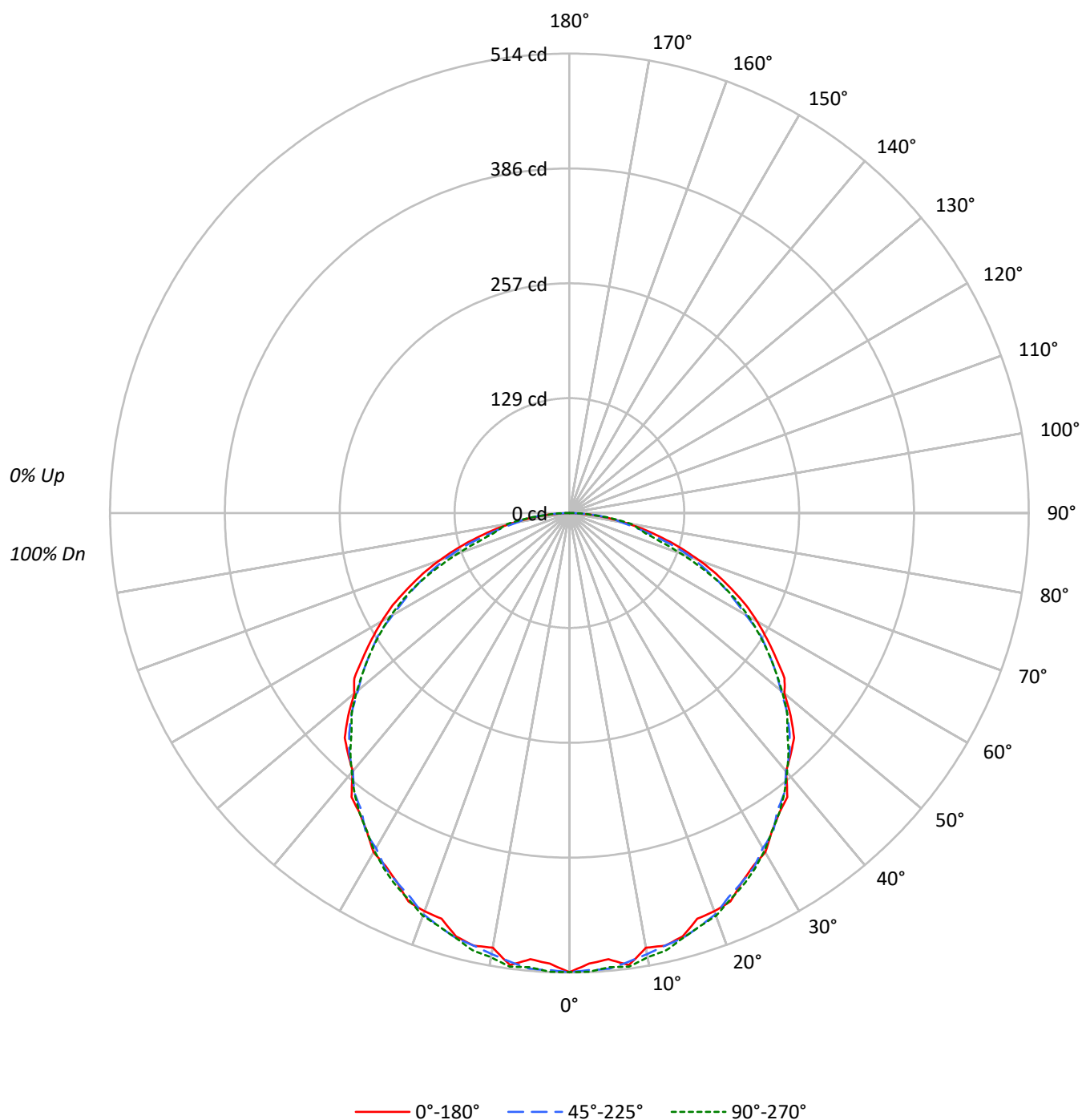
Input Watts (W): 12.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	109	104	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83		
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69		
3	90	79	71	64	87	77	70	63	74	68	62	72	66	61	69	64	60	58		
4	82	70	61	54	80	69	60	54	66	59	53	64	57	52	61	56	52	49		
5	75	62	53	46	73	61	53	46	59	52	46	57	50	45	55	49	45	43		
6	70	56	47	40	68	55	47	40	53	46	40	52	45	40	50	44	39	37		
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	46	39	35	33		
8	60	46	38	32	58	46	37	32	44	37	31	43	36	31	42	36	31	29		
9	56	42	34	29	55	42	34	28	41	33	28	40	33	28	39	32	28	26		
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	25	24		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2764	2764	2764
5°	2706	2764	2755
10°	2698	2737	2757
15°	2731	2741	2741
20°	2715	2735	2746
25°	2708	2708	2729
30°	2723	2689	2711
35°	2689	2666	2689
40°	2649	2649	2661
45°	2706	2651	2624
50°	2631	2586	2601
55°	2645	2544	2544
60°	2609	2454	2493
65°	2538	2378	2378
70°	2430	2288	2091
75°	2240	2015	1830
80°	2002	1835	2170
85°	1661	1883	1772



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.5	3.3
10°-20°	138.6	9.3
20°-30°	211.0	14.1
30°-40°	255.6	17.1
40°-50°	268.1	18.0
50°-60°	245.3	16.4
60°-70°	187.4	12.6
70°-80°	105.4	7.1
80°-90°	32.9	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°	398.2	26.7
0°-40°	653.8	43.8
0°-60°	1167.2	78.2
0°-90°	1492.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1492.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	514	514	514	514	514	
5°	501	510	512	515	510	48
15°	490	490	492	492	492	137
25°	456	458	456	460	460	211
35°	409	408	406	409	409	257
45°	356	350	348	345	345	271
55°	282	278	271	271	271	252
65°	199	194	187	185	187	197
75°	108	104	97	90	88	115
85°	27	27	30	29	29	31
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	513.5	513.5	513.5	513.5	513.5
2.5°	504.5	511.7	511.7	515.3	513.5
5°	500.9	509.9	511.7	515.3	509.9
7.5°	509.9	508.1	506.3	509.9	511.7
10°	493.7	500.9	500.9	509.9	504.5
12.5°	495.5	497.3	495.5	495.5	500.9
15°	490.1	490.1	491.9	491.9	491.9
17.5°	475.8	482.9	484.7	486.5	484.7
20°	474.0	475.8	477.6	479.4	479.4
22.5°	470.4	466.8	465.0	472.2	468.6
25°	456.0	457.8	456.0	459.6	459.6
27.5°	445.2	445.2	447.0	445.2	448.8
30°	438.1	436.3	432.7	436.3	436.3
32.5°	421.9	423.7	423.7	421.9	421.9
35°	409.3	407.5	405.7	409.3	409.3
37.5°	400.4	391.4	395.0	393.2	395.0
40°	377.0	382.4	377.0	377.0	378.8
42.5°	366.3	364.5	364.5	362.7	362.7
45°	355.5	350.1	348.3	344.7	344.7
47.5°	335.7	335.7	330.3	326.8	330.3
50°	314.2	316.0	308.8	307.0	310.6
52.5°	303.4	298.0	290.8	292.6	290.8
55°	281.9	278.3	271.1	271.1	271.1
57.5°	262.1	260.3	253.1	251.3	251.3
60°	242.4	238.8	228.0	229.8	231.6
62.5°	222.6	217.2	206.5	210.1	210.1
65°	199.3	193.9	186.7	184.9	186.7
67.5°	177.7	170.6	165.2	163.4	159.8
70°	154.4	150.8	145.4	134.7	132.9
72.5°	131.1	125.7	122.1	109.5	107.7
75°	107.7	104.1	96.9	89.8	88.0
77.5°	86.2	84.4	75.4	75.4	79.0
80°	64.6	62.8	59.2	66.4	70.0
82.5°	44.9	43.1	48.5	50.3	50.3
85°	26.9	26.9	30.5	28.7	28.7
87.5°	10.8	12.6	12.6	14.4	14.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)