

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: INVUE

Report Number: P184529

Luminaire Tested: **36EN-LD2-13-UNV-L850-CD1-U**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P184529
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34514)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: 36EN-LD2-13-UNV-L850-CD1-U
Description: METALUX ENCOUNTER 300X600 TROFFER

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

Summary

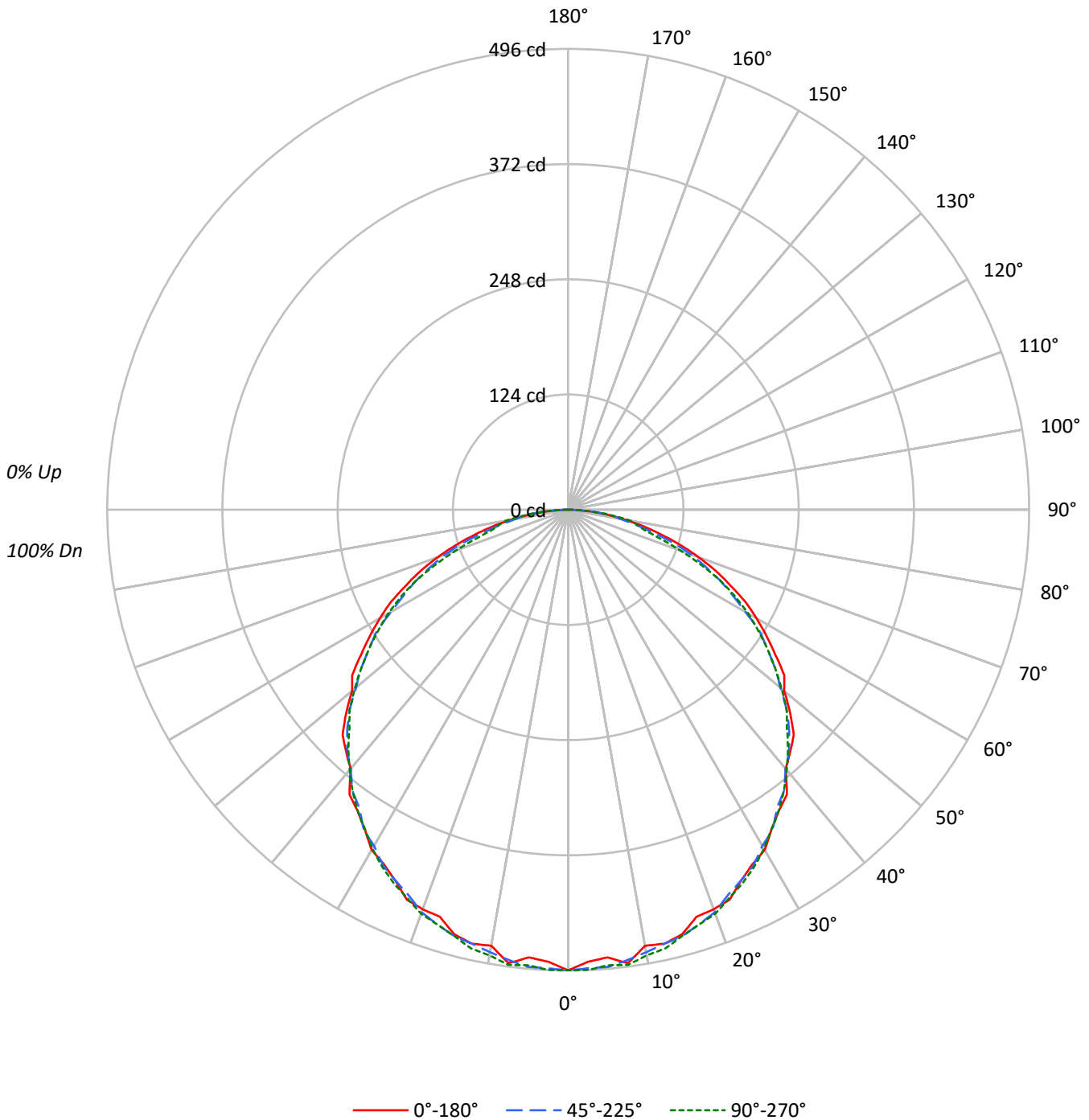
Lumens per Lamp: N/A
Luminaire Lumens: 1441.3 lumens
Efficiency: N/A
Efficacy: 118.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.38
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 12.2
Input Voltage (V): NR
Input Current (A_{in}): 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	0
RW	70	50	30	10	70	50	30	10	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	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°	2668	2668	2668
5°	2613	2669	2659
10°	2605	2643	2661
15°	2637	2646	2646
20°	2621	2640	2651
25°	2614	2614	2635
30°	2628	2596	2618
35°	2597	2574	2597
40°	2557	2557	2569
45°	2612	2559	2533
50°	2539	2496	2510
55°	2553	2456	2456
60°	2519	2369	2407
65°	2450	2296	2296
70°	2346	2209	2019
75°	2163	1946	1765
80°	1934	1773	2095
85°	1606	1822	1711



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.9	3.3
10°-20°	133.8	9.3
20°-30°	203.7	14.1
30°-40°	246.8	17.1
40°-50°	258.9	18.0
50°-60°	236.8	16.4
60°-70°	181.0	12.6
70°-80°	101.7	7.1
80°-90°	31.7	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°	384.4	26.7
0°-40°	631.2	43.8
0°-60°	1126.8	78.2
0°-90°	1441.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1441.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	496	496	496	496	496	
5°	484	492	494	497	492	46
15°	473	473	475	475	475	133
25°	440	442	440	444	444	204
35°	395	393	392	395	395	248
45°	343	338	336	333	333	262
55°	272	269	262	262	262	243
65°	192	187	180	178	180	191
75°	104	100	94	87	85	111
85°	26	26	30	28	28	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	495.7	495.7	495.7	495.7	495.7
2.5°	487.0	494.0	494.0	497.4	495.7
5°	483.6	492.2	494.0	497.4	492.2
7.5°	492.2	490.5	488.8	492.2	494.0
10°	476.6	483.6	483.6	492.2	487.0
12.5°	478.4	480.1	478.4	478.4	483.6
15°	473.2	473.2	474.9	474.9	474.9
17.5°	459.3	466.2	468.0	469.7	468.0
20°	457.6	459.3	461.0	462.8	462.8
22.5°	454.1	450.6	448.9	455.8	452.4
25°	440.2	442.0	440.2	443.7	443.7
27.5°	429.8	429.8	431.6	429.8	433.3
30°	422.9	421.2	417.7	421.2	421.2
32.5°	407.3	409.0	409.0	407.3	407.3
35°	395.2	393.4	391.7	395.2	395.2
37.5°	386.5	377.8	381.3	379.6	381.3
40°	364.0	369.2	364.0	364.0	365.7
42.5°	353.6	351.8	351.8	350.1	350.1
45°	343.2	338.0	336.2	332.8	332.8
47.5°	324.1	324.1	318.9	315.4	318.9
50°	303.3	305.0	298.1	296.4	299.8
52.5°	292.9	287.7	280.8	282.5	280.8
55°	272.1	268.6	261.7	261.7	261.7
57.5°	253.0	251.3	244.4	242.6	242.6
60°	234.0	230.5	220.1	221.9	223.6
62.5°	214.9	209.7	199.3	202.8	202.8
65°	192.4	187.2	180.3	178.5	180.3
67.5°	171.6	164.7	159.5	157.7	154.3
70°	149.1	145.6	140.4	130.0	128.3
72.5°	126.5	121.3	117.9	105.7	104.0
75°	104.0	100.5	93.6	86.7	84.9
77.5°	83.2	81.5	72.8	72.8	76.3
80°	62.4	60.7	57.2	64.1	67.6
82.5°	43.3	41.6	46.8	48.5	48.5
85°	26.0	26.0	29.5	27.7	27.7
87.5°	10.4	12.1	12.1	13.9	13.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)