

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: P184534

Luminaire Tested: **36EN-LD2-17-UNV-L850-CD1-U**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P184534  
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-LD2-17-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: 1898.9 lumens  
Efficiency: N/A  
Efficacy: 120.9 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

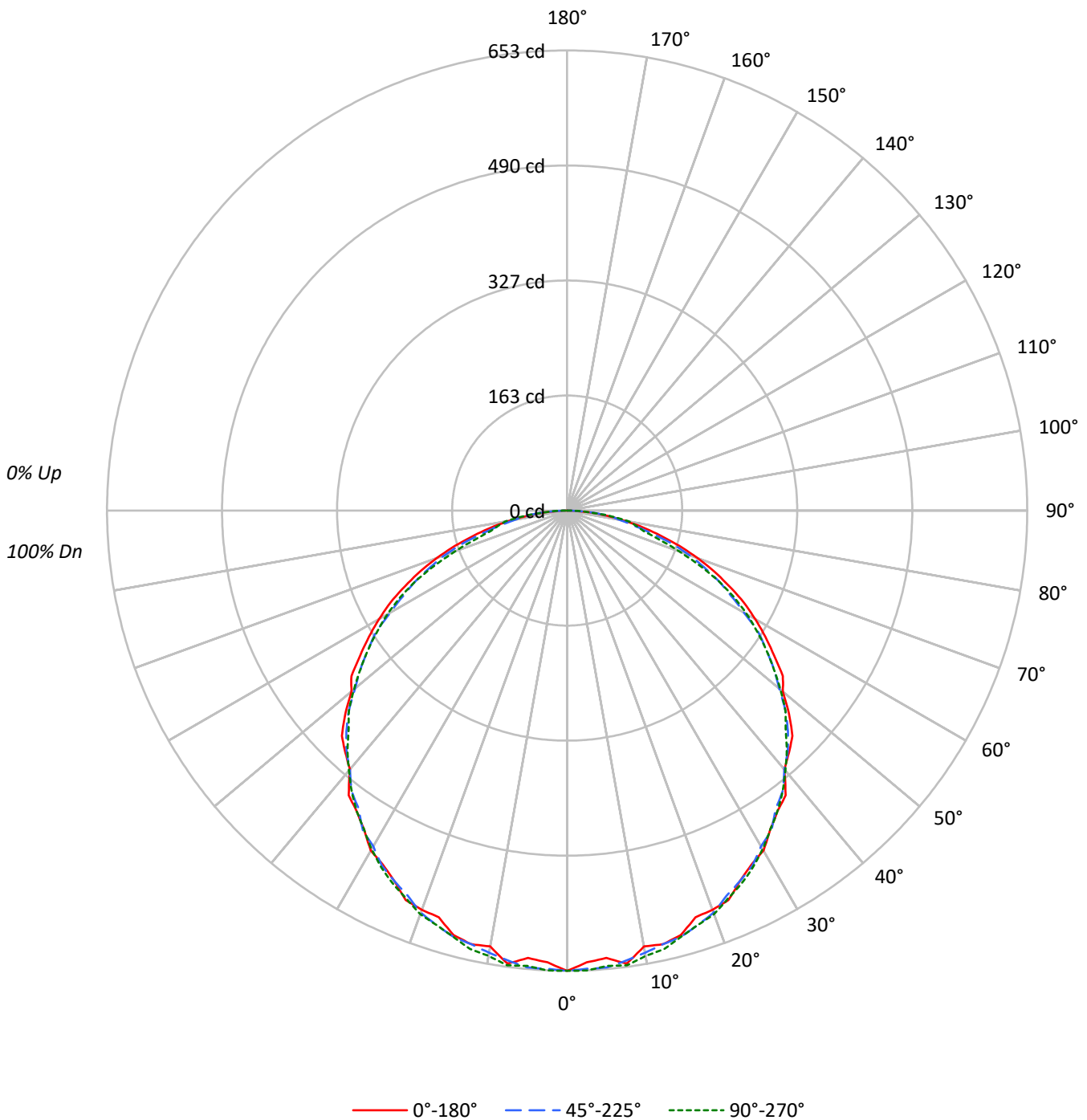
Input Watts (W): 15.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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				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°	3515	3515	3515
5°	3442	3516	3504
10°	3432	3482	3507
15°	3473	3486	3486
20°	3452	3479	3492
25°	3444	3444	3472
30°	3463	3420	3448
35°	3420	3391	3420
40°	3369	3369	3385
45°	3441	3372	3337
50°	3346	3289	3307
55°	3364	3235	3235
60°	3319	3122	3171
65°	3228	3025	3025
70°	3091	2911	2659
75°	2849	2564	2327
80°	2548	2337	2762
85°	2118	2396	2254



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	61.7	3.3
10°-20°	176.3	9.3
20°-30°	268.4	14.1
30°-40°	325.1	17.1
40°-50°	341.0	18.0
50°-60°	312.0	16.4
60°-70°	238.4	12.6
70°-80°	134.0	7.1
80°-90°	41.8	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°	506.5	26.7
0°-40°	831.6	43.8
0°-60°	1484.6	78.2
0°-90°	1898.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1898.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	653	653	653	653	653	
5°	637	648	651	655	648	61
15°	623	623	626	626	626	175
25°	580	582	580	585	585	268
35°	521	518	516	521	521	327
45°	452	445	443	438	438	345
55°	358	354	345	345	345	320
65°	254	247	238	235	238	251
75°	137	132	123	114	112	146
85°	34	34	39	36	36	40
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	653.1	653.1	653.1	653.1	653.1
2.5°	641.7	650.8	650.8	655.4	653.1
5°	637.1	648.5	650.8	655.4	648.5
7.5°	648.5	646.2	643.9	648.5	650.8
10°	628.0	637.1	637.1	648.5	641.7
12.5°	630.2	632.5	630.2	630.2	637.1
15°	623.4	623.4	625.7	625.7	625.7
17.5°	605.1	614.2	616.5	618.8	616.5
20°	602.8	605.1	607.4	609.7	609.7
22.5°	598.3	593.7	591.4	600.5	596.0
25°	580.0	582.3	580.0	584.6	584.6
27.5°	566.3	566.3	568.6	566.3	570.9
30°	557.2	554.9	550.3	554.9	554.9
32.5°	536.6	538.9	538.9	536.6	536.6
35°	520.6	518.3	516.1	520.6	520.6
37.5°	509.2	497.8	502.4	500.1	502.4
40°	479.5	486.4	479.5	479.5	481.8
42.5°	465.8	463.5	463.5	461.3	461.3
45°	452.1	445.3	443.0	438.4	438.4
47.5°	427.0	427.0	420.2	415.6	420.2
50°	399.6	401.9	392.8	390.5	395.0
52.5°	385.9	379.1	369.9	372.2	369.9
55°	358.5	353.9	344.8	344.8	344.8
57.5°	333.4	331.1	322.0	319.7	319.7
60°	308.3	303.7	290.0	292.3	294.6
62.5°	283.1	276.3	262.6	267.2	267.2
65°	253.5	246.6	237.5	235.2	237.5
67.5°	226.1	216.9	210.1	207.8	203.2
70°	196.4	191.8	185.0	171.3	169.0
72.5°	166.7	159.8	155.3	139.3	137.0
75°	137.0	132.4	123.3	114.2	111.9
77.5°	109.6	107.3	95.9	95.9	100.5
80°	82.2	79.9	75.4	84.5	89.1
82.5°	57.1	54.8	61.7	63.9	63.9
85°	34.3	34.3	38.8	36.5	36.5
87.5°	13.7	16.0	16.0	18.3	18.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)