

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: P184552

Luminaire Tested: **36EN-LD2-35-UNV-L835-CD1-U**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P184552  
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-LD2-35-UNV-L835-CD1-U  
Description: METALUX ENCOUNTER 300X600 TROFFER  
  
Light Source: EATON LED 3500K  
Ballast/Driver: OSRAM ELECTRONIC DRIVER

**Summary**

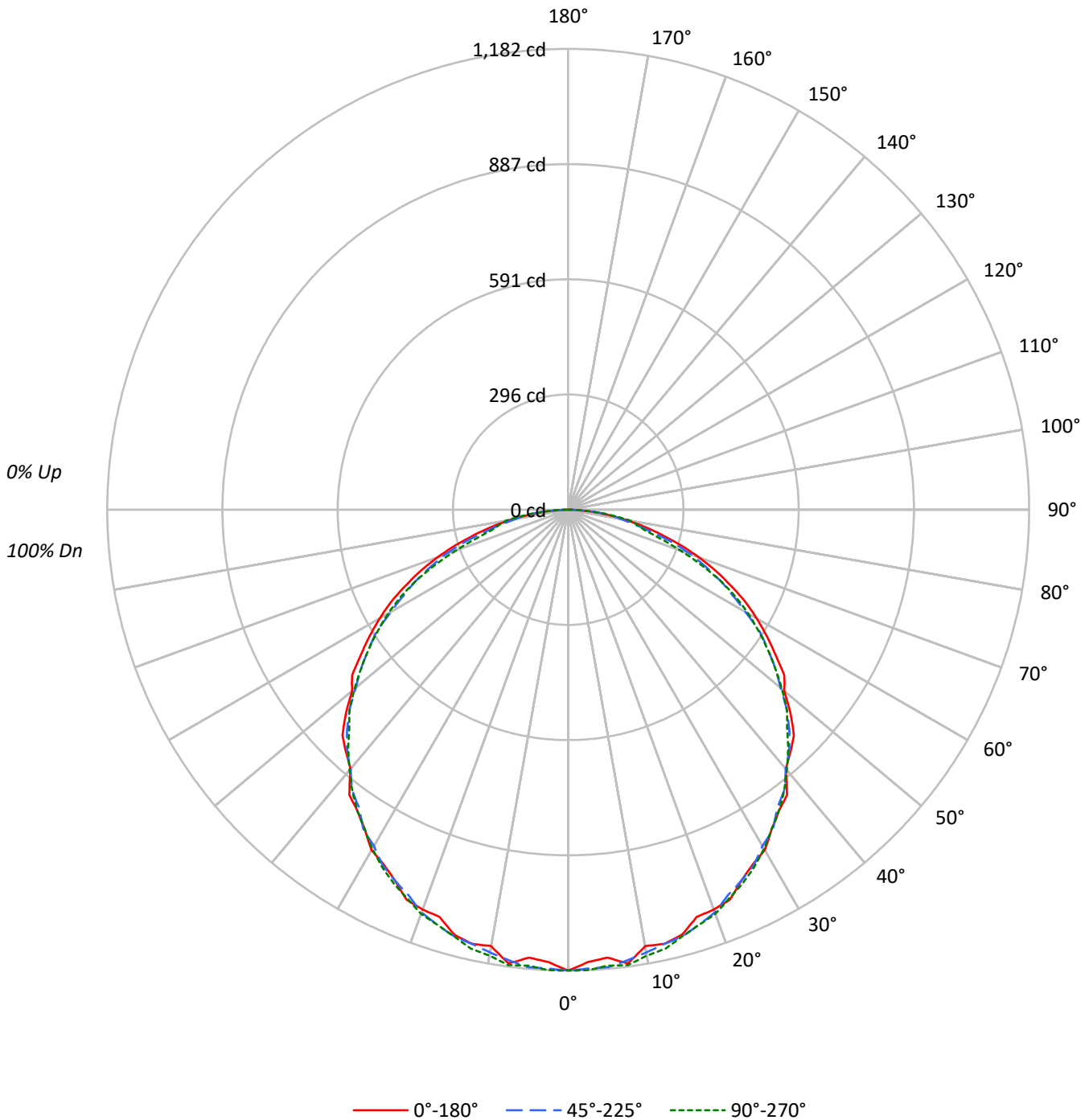
Lumens per Lamp: N/A  
Luminaire Lumens: 3436.8 lumens  
Efficiency: N/A  
Efficacy: 109.5 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.38  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 31.4  
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°	6361	6361	6361
5°	6230	6364	6341
10°	6211	6302	6346
15°	6287	6310	6310
20°	6249	6297	6320
25°	6234	6234	6283
30°	6267	6190	6241
35°	6191	6137	6191
40°	6098	6098	6126
45°	6228	6103	6040
50°	6056	5952	5987
55°	6089	5856	5856
60°	6005	5650	5738
65°	5843	5473	5473
70°	5593	5268	4812
75°	5157	4641	4211
80°	4612	4228	4996
85°	3829	4341	4082



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	111.7	3.3
10°-20°	319.1	9.3
20°-30°	485.8	14.1
30°-40°	588.5	17.1
40°-50°	617.3	18.0
50°-60°	564.6	16.4
60°-70°	431.5	12.6
70°-80°	242.6	7.1
80°-90°	75.7	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°	916.7	26.7
0°-40°	1505.2	43.8
0°-60°	2687.1	78.2
0°-90°	3436.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3436.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1182	1182	1182	1182	1182	
5°	1153	1174	1178	1186	1174	111
15°	1128	1128	1132	1132	1132	316
25°	1050	1054	1050	1058	1058	486
35°	942	938	934	942	942	591
45°	818	806	802	794	794	624
55°	649	641	624	624	624	580
65°	459	446	430	426	430	455
75°	248	240	223	207	202	264
85°	62	62	70	66	66	72
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1182.0	1182.0	1182.0	1182.0	1182.0
2.5°	1161.3	1177.9	1177.9	1186.1	1182.0
5°	1153.1	1173.7	1177.9	1186.1	1173.7
7.5°	1173.7	1169.6	1165.5	1173.7	1177.9
10°	1136.5	1153.1	1153.1	1173.7	1161.3
12.5°	1140.7	1144.8	1140.7	1140.7	1153.1
15°	1128.3	1128.3	1132.4	1132.4	1132.4
17.5°	1095.2	1111.8	1115.9	1120.0	1115.9
20°	1091.1	1095.2	1099.4	1103.5	1103.5
22.5°	1082.8	1074.6	1070.4	1087.0	1078.7
25°	1049.8	1053.9	1049.8	1058.0	1058.0
27.5°	1025.0	1025.0	1029.1	1025.0	1033.2
30°	1008.4	1004.3	996.0	1004.3	1004.3
32.5°	971.2	975.4	975.4	971.2	971.2
35°	942.3	938.2	934.0	942.3	942.3
37.5°	921.6	901.0	909.2	905.1	909.2
40°	867.9	880.3	867.9	867.9	872.0
42.5°	843.1	839.0	839.0	834.8	834.8
45°	818.3	805.9	801.8	793.5	793.5
47.5°	772.9	772.9	760.5	752.2	760.5
50°	723.3	727.4	710.9	706.7	715.0
52.5°	698.5	686.1	669.5	673.7	669.5
55°	648.9	640.6	624.1	624.1	624.1
57.5°	603.4	599.3	582.7	578.6	578.6
60°	557.9	549.7	524.9	529.0	533.1
62.5°	512.5	500.1	475.3	483.6	483.6
65°	458.8	446.4	429.8	425.7	429.8
67.5°	409.2	392.6	380.2	376.1	367.8
70°	355.4	347.2	334.8	310.0	305.8
72.5°	301.7	289.3	281.0	252.1	248.0
75°	248.0	239.7	223.2	206.6	202.5
77.5°	198.4	194.2	173.6	173.6	181.8
80°	148.8	144.7	136.4	152.9	161.2
82.5°	103.3	99.2	111.6	115.7	115.7
85°	62.0	62.0	70.3	66.1	66.1
87.5°	24.8	28.9	28.9	33.1	33.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)