

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: P184548

Luminaire Tested: **36EN-LD2-31-UNV-L840-CD1-U**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P184548  
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-LD2-31-UNV-L840-CD1-U  
Description: METALUX ENCOUNTER 300X600 TROFFER  
  
Light Source: EATON LED 4000K  
Ballast/Driver: OSRAM ELECTRONIC DRIVER

**Summary**

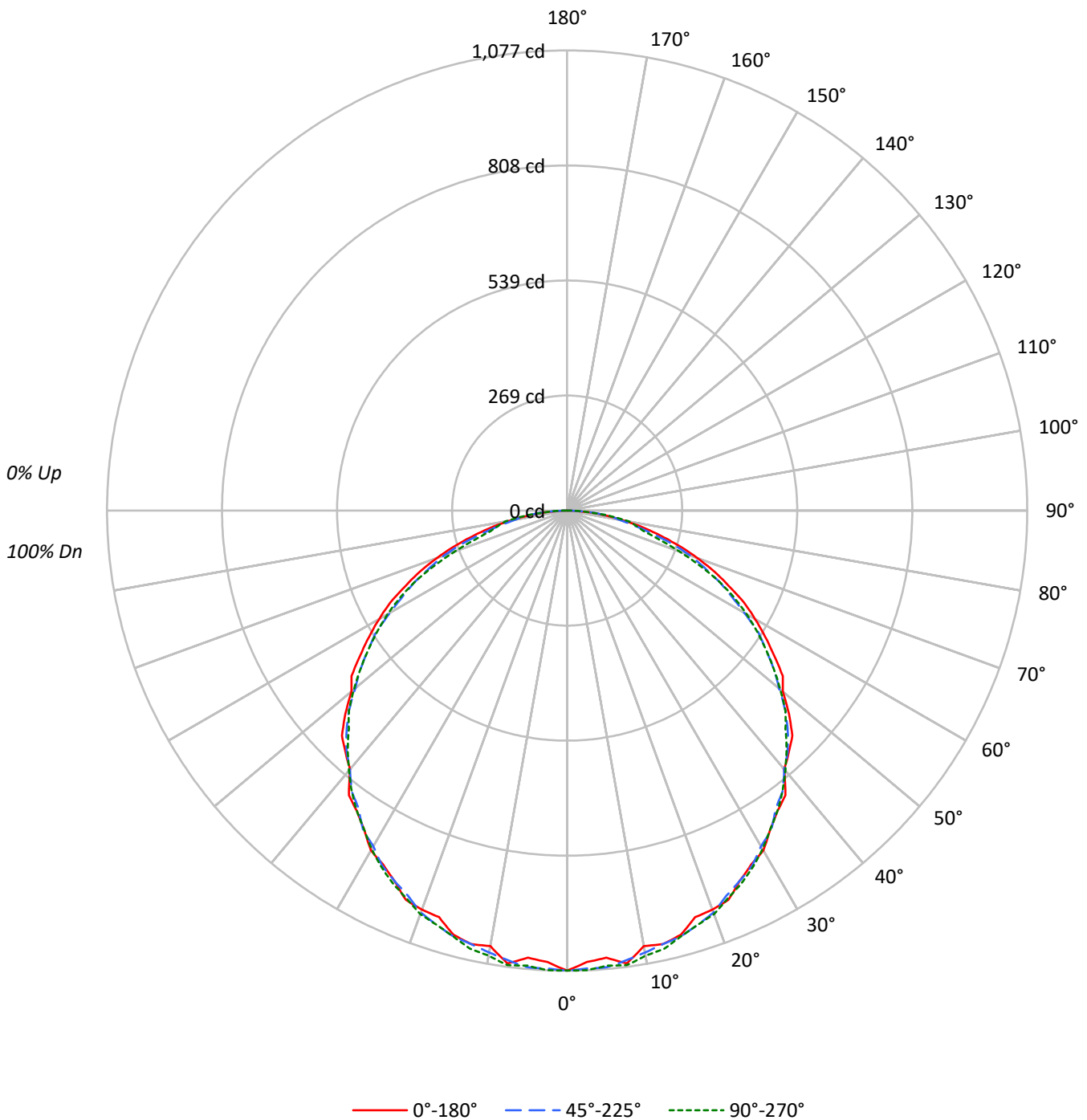
Lumens per Lamp: N/A  
Luminaire Lumens: 3130.3 lumens  
Efficiency: N/A  
Efficacy: 113.0 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.38  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 27.7  
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°	5794	5794	5794
5°	5674	5796	5776
10°	5657	5740	5781
15°	5726	5747	5747
20°	5692	5735	5757
25°	5678	5678	5723
30°	5708	5638	5685
35°	5639	5590	5639
40°	5554	5554	5580
45°	5673	5558	5501
50°	5516	5421	5452
55°	5545	5333	5333
60°	5470	5146	5227
65°	5321	4986	4986
70°	5094	4798	4384
75°	4697	4227	3837
80°	4200	3849	4550
85°	3489	3952	3717



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	101.8	3.3
10°-20°	290.7	9.3
20°-30°	442.5	14.1
30°-40°	536.0	17.1
40°-50°	562.2	18.0
50°-60°	514.3	16.4
60°-70°	393.0	12.6
70°-80°	220.9	7.1
80°-90°	68.9	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°	835.0	26.7
0°-40°	1371.0	43.8
0°-60°	2447.5	78.2
0°-90°	3130.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3130.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1077	1077	1077	1077	1077	
5°	1050	1069	1073	1080	1069	101
15°	1028	1028	1031	1031	1031	288
25°	956	960	956	964	964	442
35°	858	854	851	858	858	538
45°	745	734	730	723	723	568
55°	591	584	568	568	568	528
65°	418	407	392	388	392	414
75°	226	218	203	188	184	240
85°	56	56	64	60	60	66
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1076.6	1076.6	1076.6	1076.6	1076.6
2.5°	1057.8	1072.9	1072.9	1080.4	1076.6
5°	1050.3	1069.1	1072.9	1080.4	1069.1
7.5°	1069.1	1065.3	1061.6	1069.1	1072.9
10°	1035.2	1050.3	1050.3	1069.1	1057.8
12.5°	1039.0	1042.7	1039.0	1039.0	1050.3
15°	1027.7	1027.7	1031.4	1031.4	1031.4
17.5°	997.6	1012.6	1016.4	1020.2	1016.4
20°	993.8	997.6	1001.3	1005.1	1005.1
22.5°	986.3	978.7	975.0	990.0	982.5
25°	956.2	959.9	956.2	963.7	963.7
27.5°	933.6	933.6	937.3	933.6	941.1
30°	918.5	914.8	907.2	914.8	914.8
32.5°	884.6	888.4	888.4	884.6	884.6
35°	858.3	854.5	850.8	858.3	858.3
37.5°	839.5	820.6	828.2	824.4	828.2
40°	790.5	801.8	790.5	790.5	794.3
42.5°	767.9	764.2	764.2	760.4	760.4
45°	745.4	734.1	730.3	722.8	722.8
47.5°	703.9	703.9	692.7	685.1	692.7
50°	658.8	662.5	647.5	643.7	651.2
52.5°	636.2	624.9	609.8	613.6	609.8
55°	591.0	583.5	568.4	568.4	568.4
57.5°	549.6	545.8	530.8	527.0	527.0
60°	508.2	500.7	478.1	481.8	485.6
62.5°	466.8	455.5	432.9	440.4	440.4
65°	417.8	406.6	391.5	387.7	391.5
67.5°	372.7	357.6	346.3	342.6	335.0
70°	323.7	316.2	304.9	282.3	278.6
72.5°	274.8	263.5	256.0	229.6	225.9
75°	225.9	218.3	203.3	188.2	184.5
77.5°	180.7	176.9	158.1	158.1	165.6
80°	135.5	131.8	124.2	139.3	146.8
82.5°	94.1	90.3	101.6	105.4	105.4
85°	56.5	56.5	64.0	60.2	60.2
87.5°	22.6	26.4	26.4	30.1	30.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)