

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: P184551

Luminaire Tested: **36EN-LD2-35-UNV-L830-CD1-U**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P184551  
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-L830-CD1-U  
Description: METALUX ENCOUNTER 300X600 TROFFER  
  
Light Source: EATON LED 3000K  
Ballast/Driver: OSRAM ELECTRONIC DRIVER

**Summary**

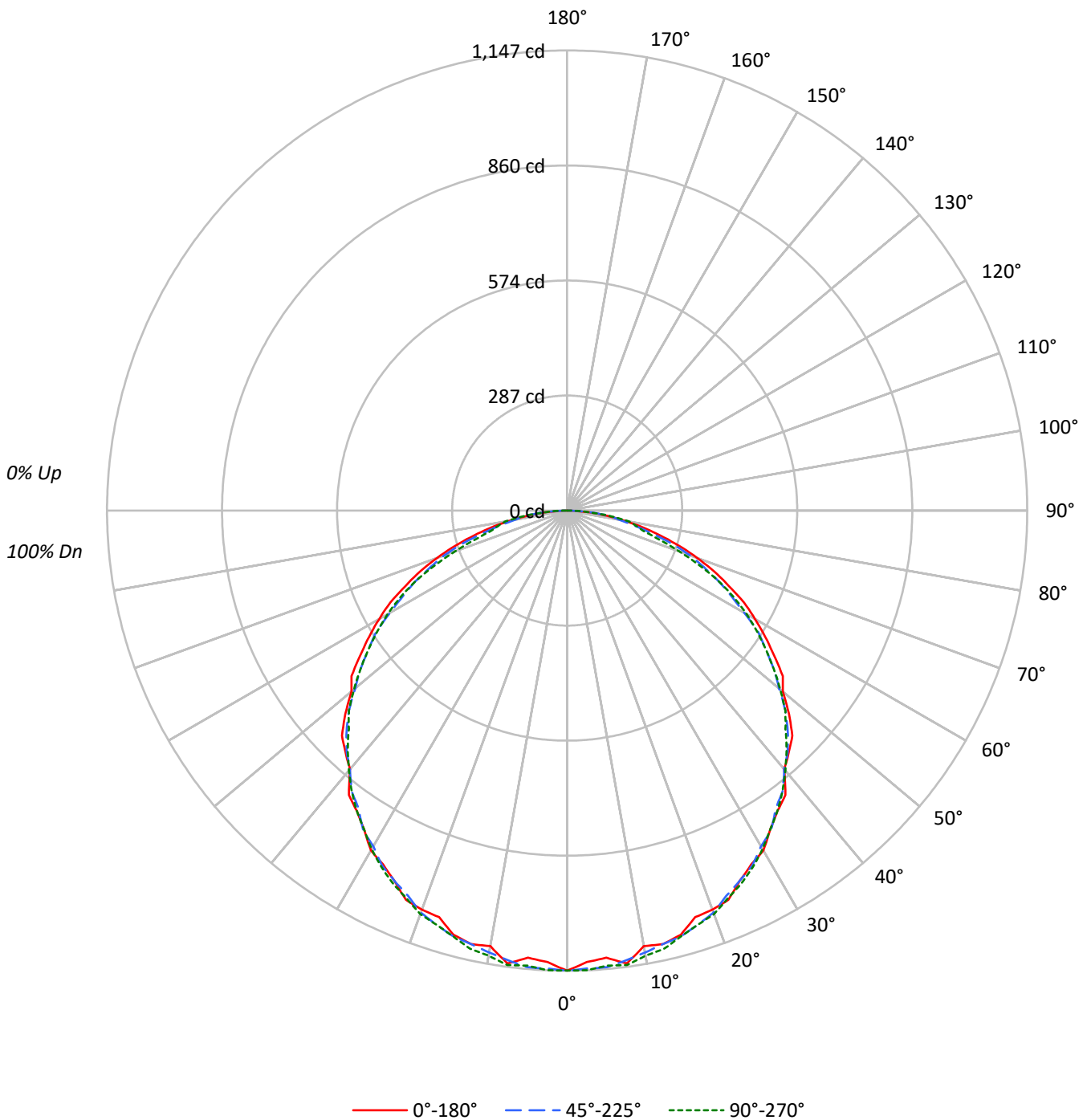
Lumens per Lamp: N/A  
Luminaire Lumens: 3333.6 lumens  
Efficiency: N/A  
Efficacy: 106.2 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.38  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

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°	6171	6171	6171
5°	6043	6172	6151
10°	6025	6113	6156
15°	6098	6120	6120
20°	6062	6108	6131
25°	6047	6047	6095
30°	6079	6004	6054
35°	6005	5953	6005
40°	5915	5915	5943
45°	6042	5919	5858
50°	5874	5773	5807
55°	5906	5680	5680
60°	5825	5480	5567
65°	5667	5309	5309
70°	5426	5109	4669
75°	5001	4502	4084
80°	4472	4100	4844
85°	3711	4211	3958



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	108.4	3.3
10°-20°	309.6	9.3
20°-30°	471.2	14.1
30°-40°	570.8	17.1
40°-50°	598.7	18.0
50°-60°	547.7	16.4
60°-70°	418.5	12.6
70°-80°	235.3	7.1
80°-90°	73.4	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
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0°-30°	889.2	26.7
0°-40°	1460.0	43.8
0°-60°	2606.4	78.2
0°-90°	3333.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3333.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1147	1147	1147	1147	1147	
5°	1118	1138	1142	1151	1138	107
15°	1094	1094	1098	1098	1098	307
25°	1018	1022	1018	1026	1026	471
35°	914	910	906	914	914	573
45°	794	782	778	770	770	605
55°	629	621	605	605	605	562
65°	445	433	417	413	417	441
75°	240	232	216	200	196	256
85°	60	60	68	64	64	70
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1146.6	1146.6	1146.6	1146.6	1146.6
2.5°	1126.5	1142.5	1142.5	1150.6	1146.6
5°	1118.5	1138.5	1142.5	1150.6	1138.5
7.5°	1138.5	1134.5	1130.5	1138.5	1142.5
10°	1102.5	1118.5	1118.5	1138.5	1126.5
12.5°	1106.5	1110.5	1106.5	1106.5	1118.5
15°	1094.4	1094.4	1098.4	1098.4	1098.4
17.5°	1062.4	1078.4	1082.4	1086.4	1082.4
20°	1058.4	1062.4	1066.4	1070.4	1070.4
22.5°	1050.3	1042.3	1038.3	1054.3	1046.3
25°	1018.3	1022.3	1018.3	1026.3	1026.3
27.5°	994.2	994.2	998.2	994.2	1002.2
30°	978.2	974.2	966.2	974.2	974.2
32.5°	942.1	946.1	946.1	942.1	942.1
35°	914.0	910.0	906.0	914.0	914.0
37.5°	894.0	873.9	882.0	878.0	882.0
40°	841.9	853.9	841.9	841.9	845.9
42.5°	817.8	813.8	813.8	809.8	809.8
45°	793.8	781.7	777.7	769.7	769.7
47.5°	749.7	749.7	737.6	729.6	737.6
50°	701.6	705.6	689.5	685.5	693.5
52.5°	677.5	665.5	649.4	653.5	649.4
55°	629.4	621.4	605.3	605.3	605.3
57.5°	585.3	581.3	565.3	561.2	561.2
60°	541.2	533.2	509.1	513.1	517.2
62.5°	497.1	485.1	461.0	469.0	469.0
65°	445.0	433.0	416.9	412.9	416.9
67.5°	396.9	380.8	368.8	364.8	356.8
70°	344.8	336.7	324.7	300.7	296.7
72.5°	292.7	280.6	272.6	244.5	240.5
75°	240.5	232.5	216.5	200.4	196.4
77.5°	192.4	188.4	168.4	168.4	176.4
80°	144.3	140.3	132.3	148.3	156.3
82.5°	100.2	96.2	108.2	112.2	112.2
85°	60.1	60.1	68.2	64.1	64.1
87.5°	24.1	28.1	28.1	32.1	32.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)