

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: P184536

Luminaire Tested: **36EN-LD2-23-UNV-L830-CD1-U**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P184536  
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-LD2-23-UNV-L830-CD1-U  
Description: METALUX ENCOUNTER 300X600 TROFFER  
  
Light Source: EATON LED 3000K  
Ballast/Driver: OSRAM ELECTRONIC DRIVER

**Summary**

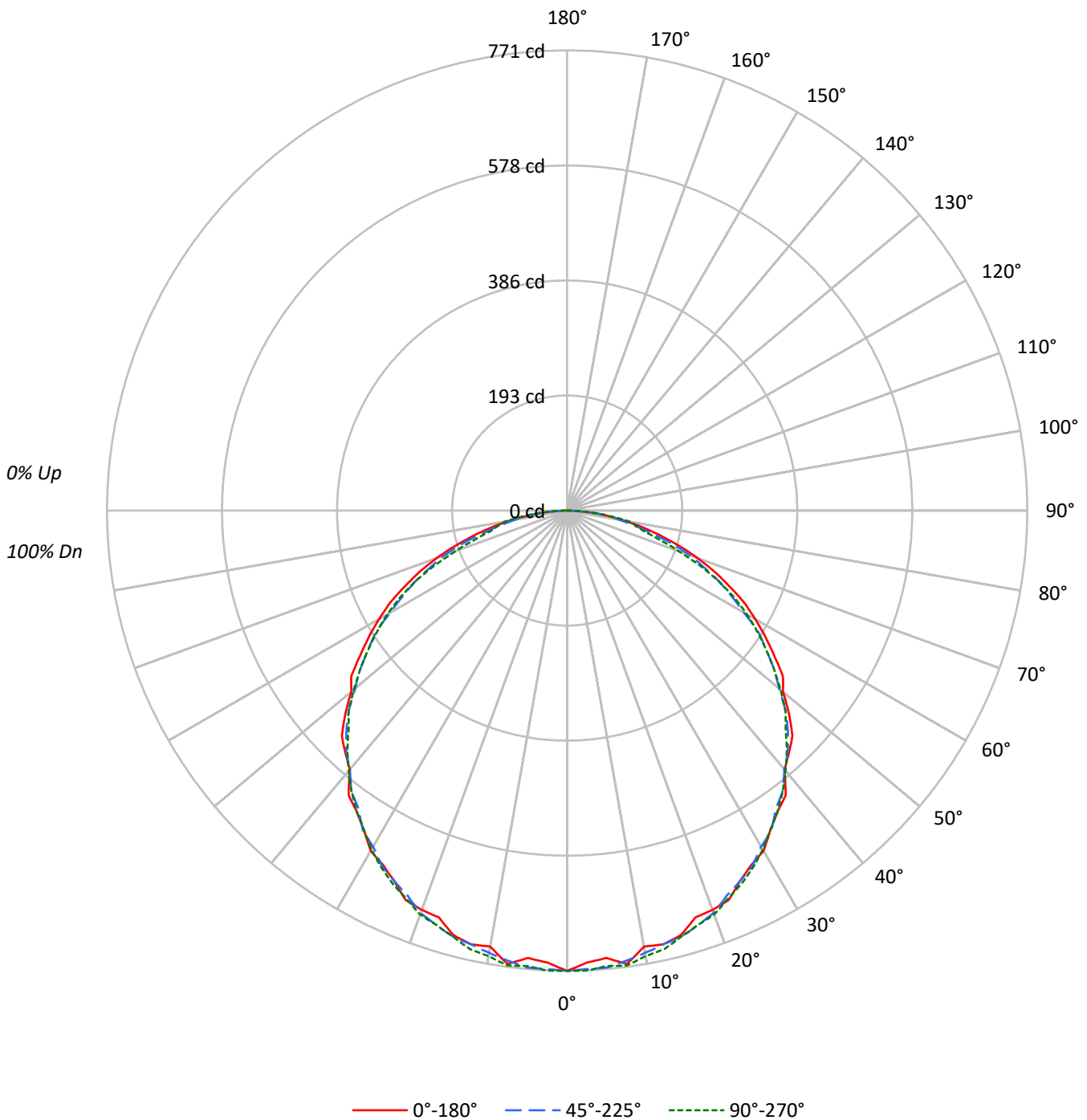
Lumens per Lamp: N/A  
Luminaire Lumens: 2242.8 lumens  
Efficiency: N/A  
Efficacy: 109.4 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.38  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 20.5  
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°	4151	4151	4151
5°	4065	4152	4138
10°	4053	4112	4142
15°	4103	4118	4118
20°	4078	4109	4124
25°	4068	4068	4100
30°	4090	4039	4073
35°	4040	4005	4040
40°	3979	3979	3998
45°	4064	3982	3941
50°	3952	3884	3907
55°	3973	3821	3821
60°	3919	3687	3745
65°	3813	3572	3572
70°	3649	3438	3141
75°	3365	3028	2749
80°	3009	2758	3261
85°	2501	2828	2668



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	72.9	3.3
10°-20°	208.3	9.3
20°-30°	317.0	14.1
30°-40°	384.0	17.1
40°-50°	402.8	18.0
50°-60°	368.4	16.4
60°-70°	281.6	12.6
70°-80°	158.3	7.1
80°-90°	49.4	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
0°-30°	598.2	26.7
0°-40°	982.2	43.8
0°-60°	1753.5	78.2
0°-90°	2242.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2242.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	771	771	771	771	771	
5°	752	766	769	774	766	72
15°	736	736	739	739	739	206
25°	685	688	685	690	690	317
35°	615	612	610	615	615	386
45°	534	526	523	518	518	407
55°	423	418	407	407	407	378
65°	299	291	280	278	280	297
75°	162	156	146	135	132	172
85°	40	40	46	43	43	47
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	771.3	771.3	771.3	771.3	771.3
2.5°	757.9	768.6	768.6	774.0	771.3
5°	752.5	766.0	768.6	774.0	766.0
7.5°	766.0	763.3	760.6	766.0	768.6
10°	741.7	752.5	752.5	766.0	757.9
12.5°	744.4	747.1	744.4	744.4	752.5
15°	736.3	736.3	739.0	739.0	739.0
17.5°	714.7	725.5	728.2	730.9	728.2
20°	712.0	714.7	717.4	720.1	720.1
22.5°	706.6	701.2	698.5	709.3	703.9
25°	685.0	687.7	685.0	690.4	690.4
27.5°	668.9	668.9	671.6	668.9	674.3
30°	658.1	655.4	650.0	655.4	655.4
32.5°	633.8	636.5	636.5	633.8	633.8
35°	614.9	612.2	609.5	614.9	614.9
37.5°	601.4	587.9	593.3	590.6	593.3
40°	566.4	574.5	566.4	566.4	569.1
42.5°	550.2	547.5	547.5	544.8	544.8
45°	534.0	525.9	523.2	517.8	517.8
47.5°	504.3	504.3	496.3	490.9	496.3
50°	472.0	474.7	463.9	461.2	466.6
52.5°	455.8	447.7	436.9	439.6	436.9
55°	423.4	418.0	407.2	407.2	407.2
57.5°	393.8	391.1	380.3	377.6	377.6
60°	364.1	358.7	342.5	345.2	347.9
62.5°	334.4	326.3	310.2	315.6	315.6
65°	299.4	291.3	280.5	277.8	280.5
67.5°	267.0	256.2	248.1	245.4	240.0
70°	231.9	226.5	218.5	202.3	199.6
72.5°	196.9	188.8	183.4	164.5	161.8
75°	161.8	156.4	145.6	134.9	132.2
77.5°	129.5	126.8	113.3	113.3	118.7
80°	97.1	94.4	89.0	99.8	105.2
82.5°	67.4	64.7	72.8	75.5	75.5
85°	40.5	40.5	45.8	43.2	43.2
87.5°	16.2	18.9	18.9	21.6	21.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)