

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: P184539

Luminaire Tested: **36EN-LD2-23-UNV-L850-CD1-U**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P184539
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-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: 2566.5 lumens
Efficiency: N/A
Efficacy: 125.2 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

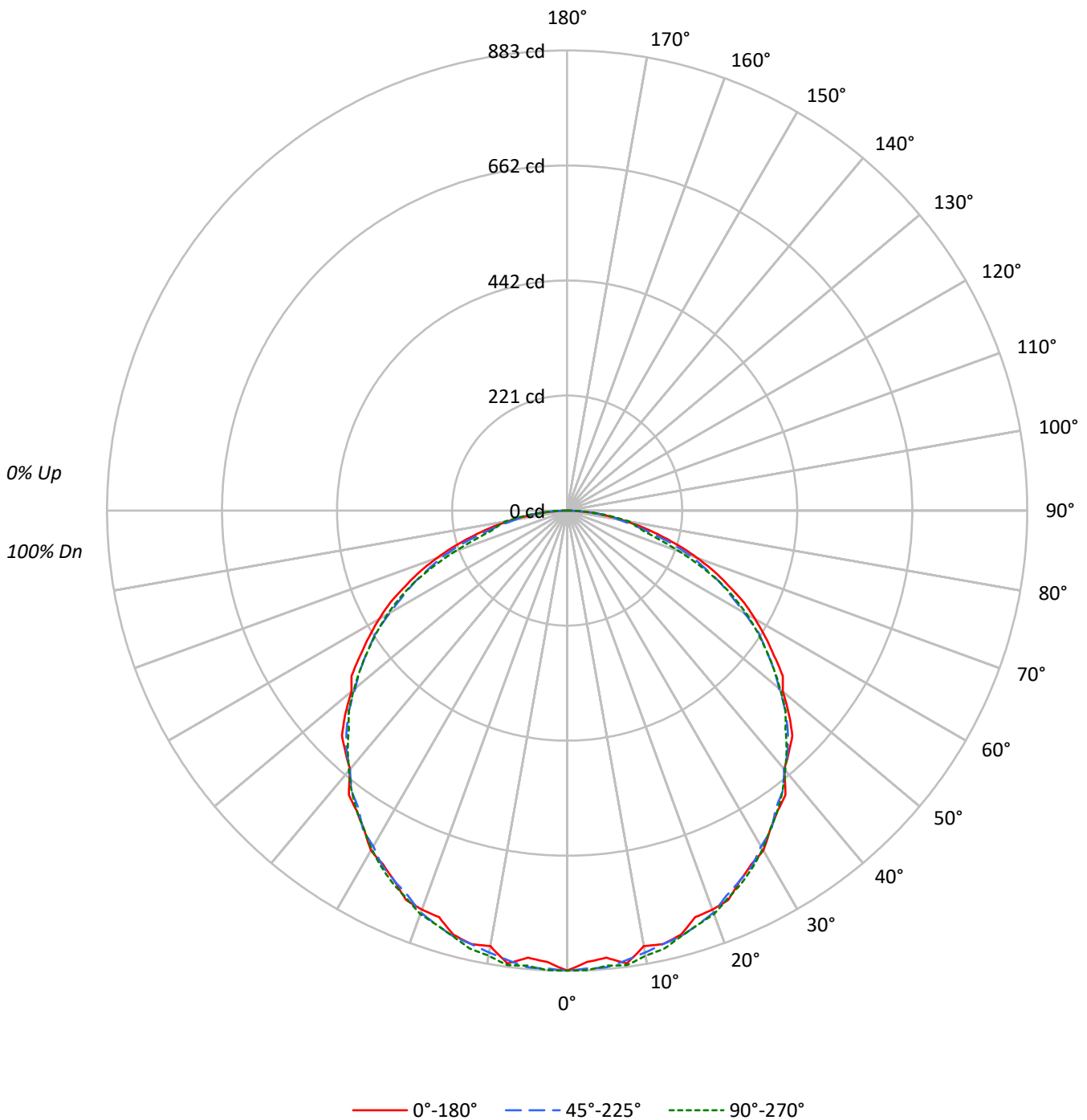
Input Watts (W): 20.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4751	4751	4751
5°	4652	4752	4735
10°	4638	4706	4739
15°	4695	4712	4712
20°	4667	4702	4719
25°	4655	4655	4692
30°	4680	4622	4661
35°	4623	4583	4623
40°	4553	4553	4575
45°	4651	4557	4510
50°	4522	4444	4470
55°	4546	4373	4373
60°	4484	4219	4285
65°	4363	4088	4088
70°	4176	3934	3594
75°	3851	3466	3144
80°	3443	3155	3732
85°	2859	3242	3051



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.4	3.3
10°-20°	238.3	9.3
20°-30°	362.8	14.1
30°-40°	439.5	17.1
40°-50°	460.9	18.0
50°-60°	421.6	16.4
60°-70°	322.2	12.6
70°-80°	181.1	7.1
80°-90°	56.5	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°	684.5	26.7
0°-40°	1124.0	43.8
0°-60°	2006.6	78.2
0°-90°	2566.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2566.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	883	883	883	883	883	
5°	861	876	880	886	876	83
15°	843	843	846	846	846	236
25°	784	787	784	790	790	363
35°	704	701	698	704	704	441
45°	611	602	599	593	593	466
55°	484	478	466	466	466	433
65°	343	333	321	318	321	339
75°	185	179	167	154	151	197
85°	46	46	52	49	49	54
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	882.7	882.7	882.7	882.7	882.7
2.5°	867.2	879.6	879.6	885.8	882.7
5°	861.1	876.5	879.6	885.8	876.5
7.5°	876.5	873.4	870.3	876.5	879.6
10°	848.7	861.1	861.1	876.5	867.2
12.5°	851.8	854.9	851.8	851.8	861.1
15°	842.6	842.6	845.6	845.6	845.6
17.5°	817.9	830.2	833.3	836.4	833.3
20°	814.8	817.9	820.9	824.0	824.0
22.5°	808.6	802.4	799.3	811.7	805.5
25°	783.9	787.0	783.9	790.1	790.1
27.5°	765.4	765.4	768.5	765.4	771.6
30°	753.1	750.0	743.8	750.0	750.0
32.5°	725.3	728.4	728.4	725.3	725.3
35°	703.7	700.6	697.5	703.7	703.7
37.5°	688.2	672.8	679.0	675.9	679.0
40°	648.1	657.4	648.1	648.1	651.2
42.5°	629.6	626.5	626.5	623.4	623.4
45°	611.1	601.8	598.7	592.6	592.6
47.5°	577.1	577.1	567.9	561.7	567.9
50°	540.1	543.2	530.8	527.8	533.9
52.5°	521.6	512.3	500.0	503.1	500.0
55°	484.5	478.4	466.0	466.0	466.0
57.5°	450.6	447.5	435.2	432.1	432.1
60°	416.6	410.5	392.0	395.0	398.1
62.5°	382.7	373.4	354.9	361.1	361.1
65°	342.6	333.3	321.0	317.9	321.0
67.5°	305.5	293.2	283.9	280.9	274.7
70°	265.4	259.2	250.0	231.5	228.4
72.5°	225.3	216.0	209.9	188.3	185.2
75°	185.2	179.0	166.7	154.3	151.2
77.5°	148.1	145.1	129.6	129.6	135.8
80°	111.1	108.0	101.8	114.2	120.4
82.5°	77.2	74.1	83.3	86.4	86.4
85°	46.3	46.3	52.5	49.4	49.4
87.5°	18.5	21.6	21.6	24.7	24.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)