

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: P184538

Luminaire Tested: **36EN-LD2-23-UNV-L840-CD1-U**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P184538
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-L840-CD1-U
Description: METALUX ENCOUNTER 300X600 TROFFER

Light Source: EATON LED 4000K
Ballast/Driver: OSRAM ELECTRONIC DRIVER

Summary

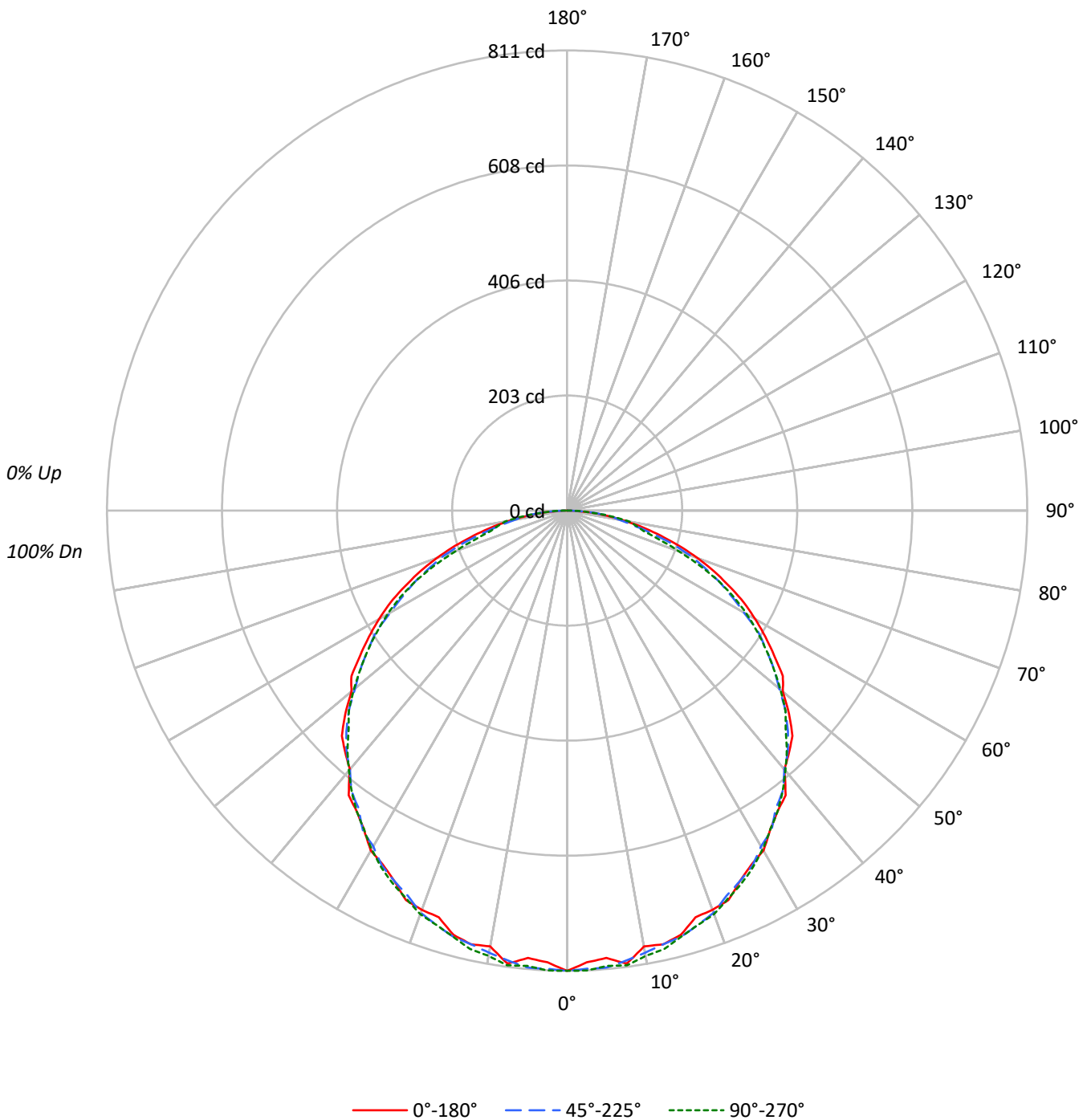
Lumens per Lamp: N/A
Luminaire Lumens: 2358.3 lumens
Efficiency: N/A
Efficacy: 115.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.38
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	4365	4365	4365
5°	4275	4367	4351
10°	4262	4324	4355
15°	4314	4330	4330
20°	4288	4321	4337
25°	4278	4278	4311
30°	4300	4248	4283
35°	4248	4211	4248
40°	4184	4184	4204
45°	4274	4188	4144
50°	4155	4084	4108
55°	4178	4018	4018
60°	4122	3877	3937
65°	4009	3755	3755
70°	3838	3615	3303
75°	3539	3184	2890
80°	3164	2901	3428
85°	2624	2976	2803



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.7	3.3
10°-20°	219.0	9.3
20°-30°	333.4	14.1
30°-40°	403.8	17.1
40°-50°	423.6	18.0
50°-60°	387.4	16.4
60°-70°	296.1	12.6
70°-80°	166.4	7.1
80°-90°	51.9	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°	629.0	26.7
0°-40°	1032.9	43.8
0°-60°	1843.9	78.2
0°-90°	2358.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2358.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	811	811	811	811	811	
5°	791	805	808	814	805	76
15°	774	774	777	777	777	217
25°	720	723	720	726	726	333
35°	647	644	641	647	647	406
45°	562	553	550	544	544	428
55°	445	440	428	428	428	398
65°	315	306	295	292	295	312
75°	170	164	153	142	139	181
85°	42	42	48	45	45	49
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	811.1	811.1	811.1	811.1	811.1
2.5°	796.9	808.3	808.3	813.9	811.1
5°	791.3	805.4	808.3	813.9	805.4
7.5°	805.4	802.6	799.8	805.4	808.3
10°	779.9	791.3	791.3	805.4	796.9
12.5°	782.7	785.6	782.7	782.7	791.3
15°	774.2	774.2	777.1	777.1	777.1
17.5°	751.5	762.9	765.7	768.6	765.7
20°	748.7	751.5	754.4	757.2	757.2
22.5°	743.0	737.4	734.5	745.9	740.2
25°	720.4	723.2	720.4	726.0	726.0
27.5°	703.3	703.3	706.2	703.3	709.0
30°	692.0	689.2	683.5	689.2	689.2
32.5°	666.5	669.3	669.3	666.5	666.5
35°	646.6	643.8	640.9	646.6	646.6
37.5°	632.4	618.3	623.9	621.1	623.9
40°	595.6	604.1	595.6	595.6	598.4
42.5°	578.6	575.7	575.7	572.9	572.9
45°	561.5	553.0	550.2	544.5	544.5
47.5°	530.3	530.3	521.8	516.2	521.8
50°	496.3	499.1	487.8	485.0	490.6
52.5°	479.3	470.8	459.4	462.3	459.4
55°	445.3	439.6	428.2	428.2	428.2
57.5°	414.1	411.2	399.9	397.0	397.0
60°	382.9	377.2	360.2	363.0	365.8
62.5°	351.7	343.2	326.1	331.8	331.8
65°	314.8	306.3	294.9	292.1	294.9
67.5°	280.8	269.4	260.9	258.1	252.4
70°	243.9	238.2	229.7	212.7	209.9
72.5°	207.0	198.5	192.9	173.0	170.2
75°	170.2	164.5	153.1	141.8	139.0
77.5°	136.1	133.3	119.1	119.1	124.8
80°	102.1	99.3	93.6	104.9	110.6
82.5°	70.9	68.1	76.6	79.4	79.4
85°	42.5	42.5	48.2	45.4	45.4
87.5°	17.0	19.9	19.9	22.7	22.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)