

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: P184528

Luminaire Tested: **36EN-LD2-13-UNV-L840-CD1-U**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P184528
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-LD2-13-UNV-L840-CD1-U
Description: METALUX ENCOUNTER 300X600 TROFFER

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

Summary

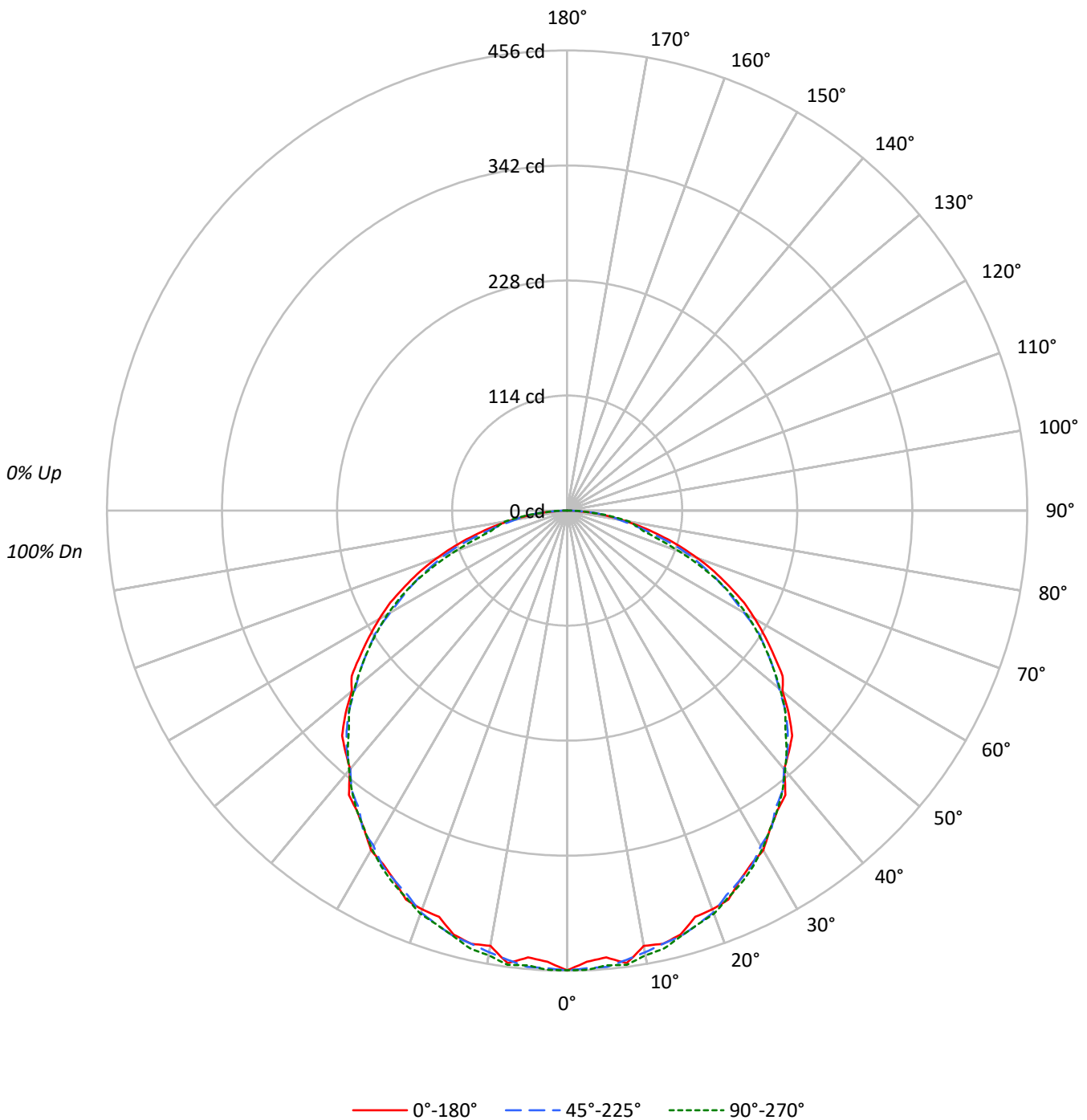
Lumens per Lamp: N/A
Luminaire Lumens: 1324.4 lumens
Efficiency: N/A
Efficacy: 108.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.38
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 12.2
Input Voltage (V): NR
Input Current (A_{in}): 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°	2451	2451	2451
5°	2401	2452	2444
10°	2394	2429	2446
15°	2423	2432	2432
20°	2408	2427	2435
25°	2402	2402	2421
30°	2415	2385	2405
35°	2386	2365	2386
40°	2350	2350	2361
45°	2401	2352	2328
50°	2334	2293	2307
55°	2347	2257	2257
60°	2314	2178	2212
65°	2252	2109	2109
70°	2156	2030	1855
75°	1988	1788	1622
80°	1776	1630	1925
85°	1476	1673	1575



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.1	3.3
10°-20°	123.0	9.3
20°-30°	187.2	14.1
30°-40°	226.8	17.1
40°-50°	237.9	18.0
50°-60°	217.6	16.4
60°-70°	166.3	12.6
70°-80°	93.5	7.1
80°-90°	29.2	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°	353.3	26.7
0°-40°	580.0	43.8
0°-60°	1035.5	78.2
0°-90°	1324.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1324.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	456	456	456	456	456	
5°	444	452	454	457	452	43
15°	435	435	436	436	436	122
25°	404	406	404	408	408	187
35°	363	362	360	363	363	228
45°	315	311	309	306	306	240
55°	250	247	240	240	240	223
65°	177	172	166	164	166	175
75°	96	92	86	80	78	102
85°	24	24	27	26	26	28
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	455.5	455.5	455.5	455.5	455.5
2.5°	447.5	453.9	453.9	457.1	455.5
5°	444.4	452.3	453.9	457.1	452.3
7.5°	452.3	450.7	449.1	452.3	453.9
10°	438.0	444.4	444.4	452.3	447.5
12.5°	439.6	441.2	439.6	439.6	444.4
15°	434.8	434.8	436.4	436.4	436.4
17.5°	422.1	428.4	430.0	431.6	430.0
20°	420.5	422.1	423.7	425.2	425.2
22.5°	417.3	414.1	412.5	418.9	415.7
25°	404.5	406.1	404.5	407.7	407.7
27.5°	395.0	395.0	396.6	395.0	398.2
30°	388.6	387.0	383.8	387.0	387.0
32.5°	374.3	375.9	375.9	374.3	374.3
35°	363.1	361.5	359.9	363.1	363.1
37.5°	355.2	347.2	350.4	348.8	350.4
40°	334.5	339.2	334.5	334.5	336.1
42.5°	324.9	323.3	323.3	321.7	321.7
45°	315.4	310.6	309.0	305.8	305.8
47.5°	297.8	297.8	293.1	289.9	293.1
50°	278.7	280.3	273.9	272.3	275.5
52.5°	269.2	264.4	258.0	259.6	258.0
55°	250.1	246.9	240.5	240.5	240.5
57.5°	232.5	230.9	224.6	223.0	223.0
60°	215.0	211.8	202.3	203.9	205.5
62.5°	197.5	192.7	183.2	186.3	186.3
65°	176.8	172.0	165.6	164.0	165.6
67.5°	157.7	151.3	146.5	144.9	141.7
70°	137.0	133.8	129.0	119.5	117.9
72.5°	116.3	111.5	108.3	97.2	95.6
75°	95.6	92.4	86.0	79.6	78.0
77.5°	76.4	74.9	66.9	66.9	70.1
80°	57.3	55.7	52.6	58.9	62.1
82.5°	39.8	38.2	43.0	44.6	44.6
85°	23.9	23.9	27.1	25.5	25.5
87.5°	9.6	11.1	11.1	12.7	12.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)