

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: P184527

Luminaire Tested: **36EN-LD2-13-UNV-L835-CD1-U**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P184527
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-L835-CD1-U
Description: METALUX ENCOUNTER 300X600 TROFFER

Light Source: EATON LED 3500K
Ballast/Driver: OSRAM ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1298.5 lumens
Efficiency: N/A
Efficacy: 106.4 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

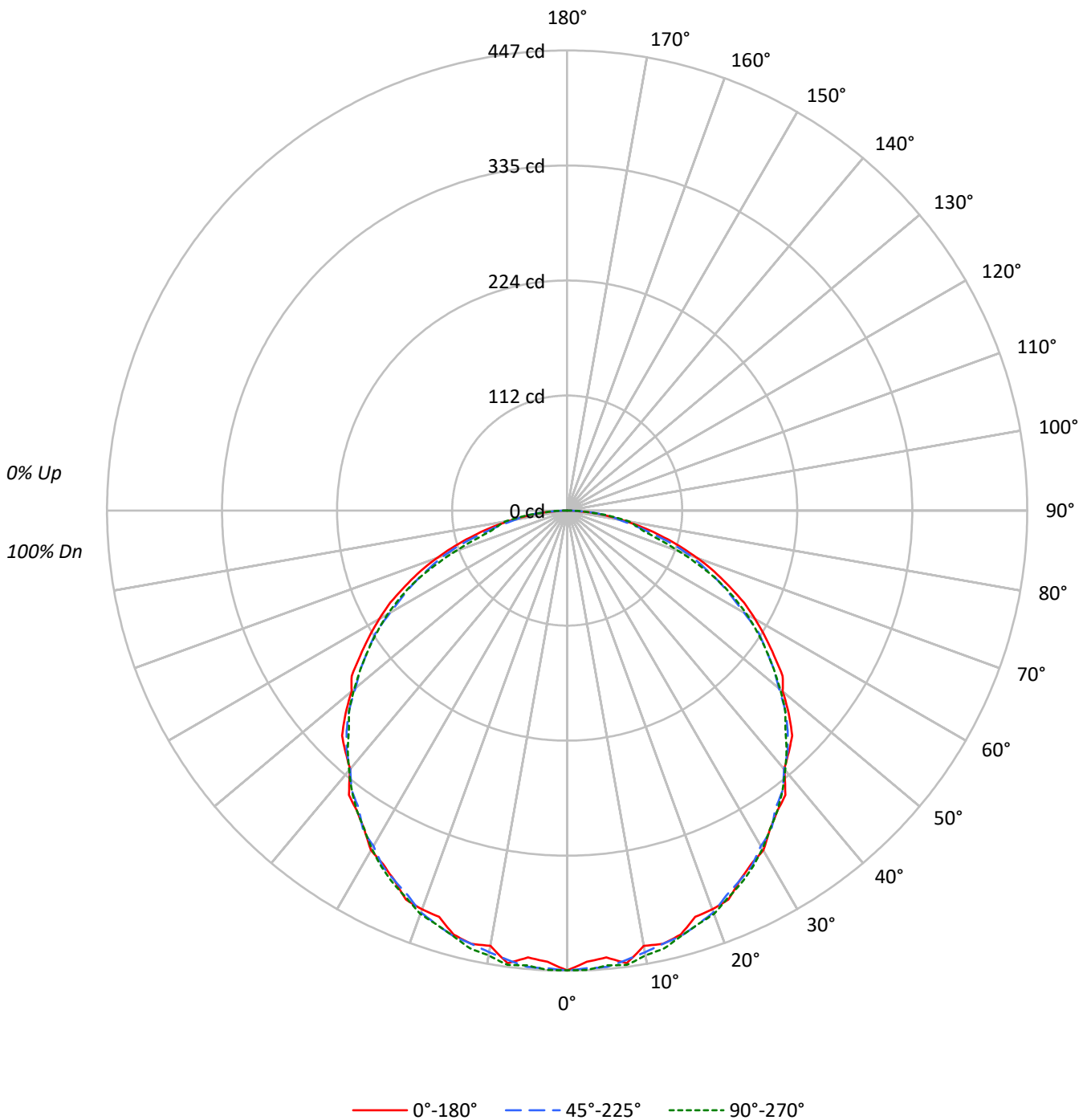
Input Watts (W): 12.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2404	2404	2404
5°	2353	2404	2396
10°	2347	2381	2398
15°	2375	2384	2384
20°	2361	2379	2388
25°	2355	2355	2374
30°	2368	2339	2358
35°	2339	2319	2339
40°	2304	2304	2315
45°	2353	2305	2282
50°	2288	2249	2262
55°	2300	2213	2213
60°	2269	2134	2168
65°	2207	2068	2068
70°	2113	1991	1817
75°	1948	1753	1591
80°	1742	1596	1888
85°	1445	1636	1544



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.2	3.3
10°-20°	120.6	9.3
20°-30°	183.5	14.1
30°-40°	222.3	17.1
40°-50°	233.2	18.0
50°-60°	213.3	16.4
60°-70°	163.0	12.6
70°-80°	91.6	7.1
80°-90°	28.6	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°	346.3	26.7
0°-40°	568.7	43.8
0°-60°	1015.2	78.2
0°-90°	1298.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1298.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	447	447	447	447	447	
5°	436	444	445	448	444	42
15°	426	426	428	428	428	120
25°	397	398	397	400	400	183
35°	356	354	353	356	356	223
45°	309	304	303	300	300	236
55°	245	242	236	236	236	219
65°	173	169	162	161	162	172
75°	94	91	84	78	76	100
85°	23	23	26	25	25	27
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	446.6	446.6	446.6	446.6	446.6
2.5°	438.8	445.0	445.0	448.1	446.6
5°	435.6	443.5	445.0	448.1	443.5
7.5°	443.5	441.9	440.3	443.5	445.0
10°	429.4	435.6	435.6	443.5	438.8
12.5°	431.0	432.5	431.0	431.0	435.6
15°	426.3	426.3	427.8	427.8	427.8
17.5°	413.8	420.0	421.6	423.2	421.6
20°	412.2	413.8	415.3	416.9	416.9
22.5°	409.1	406.0	404.4	410.7	407.5
25°	396.6	398.2	396.6	399.7	399.7
27.5°	387.2	387.2	388.8	387.2	390.4
30°	381.0	379.4	376.3	379.4	379.4
32.5°	366.9	368.5	368.5	366.9	366.9
35°	356.0	354.4	352.9	356.0	356.0
37.5°	348.2	340.4	343.5	342.0	343.5
40°	327.9	332.6	327.9	327.9	329.5
42.5°	318.5	317.0	317.0	315.4	315.4
45°	309.2	304.5	302.9	299.8	299.8
47.5°	292.0	292.0	287.3	284.2	287.3
50°	273.3	274.8	268.6	267.0	270.1
52.5°	263.9	259.2	253.0	254.5	253.0
55°	245.1	242.0	235.8	235.8	235.8
57.5°	228.0	226.4	220.2	218.6	218.6
60°	210.8	207.7	198.3	199.9	201.4
62.5°	193.6	188.9	179.6	182.7	182.7
65°	173.3	168.6	162.4	160.8	162.4
67.5°	154.6	148.3	143.7	142.1	139.0
70°	134.3	131.2	126.5	117.1	115.5
72.5°	114.0	109.3	106.2	95.2	93.7
75°	93.7	90.6	84.3	78.1	76.5
77.5°	74.9	73.4	65.6	65.6	68.7
80°	56.2	54.7	51.5	57.8	60.9
82.5°	39.0	37.5	42.2	43.7	43.7
85°	23.4	23.4	26.5	25.0	25.0
87.5°	9.4	10.9	10.9	12.5	12.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)