

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: P184559

Luminaire Tested: **36EN-LD2-39-UNV-L850-CD1-U**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P184559
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-LD2-39-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: 4259.5 lumens
Efficiency: N/A
Efficacy: 120.3 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

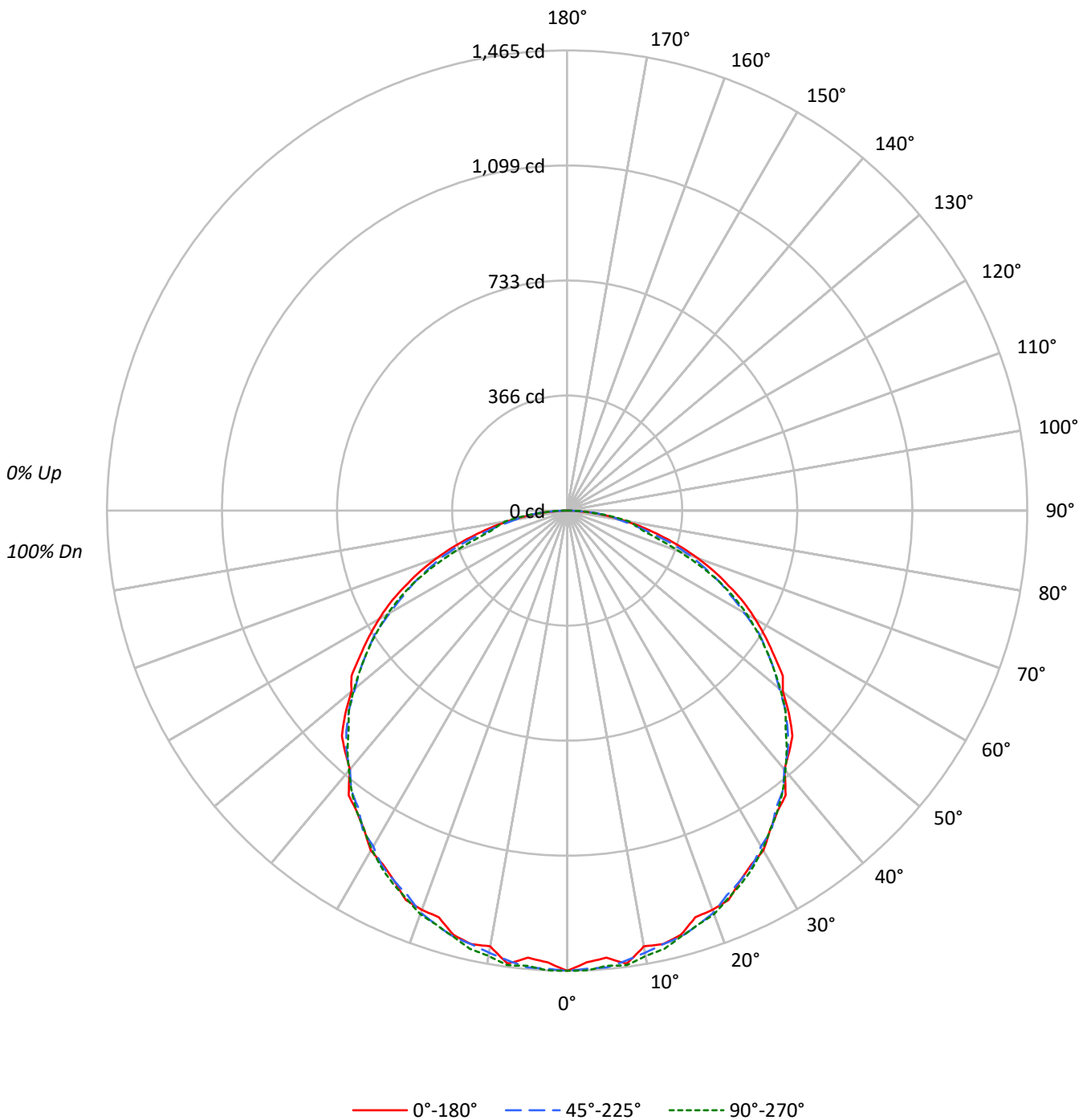
Input Watts (W): 35.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	7885	7885	7885
5°	7721	7887	7859
10°	7698	7810	7866
15°	7792	7820	7820
20°	7745	7804	7833
25°	7726	7726	7787
30°	7767	7672	7735
35°	7673	7606	7673
40°	7557	7557	7593
45°	7719	7563	7486
50°	7505	7376	7420
55°	7546	7258	7258
60°	7443	7002	7113
65°	7241	6784	6784
70°	6932	6529	5965
75°	6390	5752	5219
80°	5715	5238	6192
85°	4742	5379	5064



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.5	3.3
10°-20°	395.5	9.3
20°-30°	602.1	14.1
30°-40°	729.4	17.1
40°-50°	765.0	18.0
50°-60°	699.8	16.4
60°-70°	534.8	12.6
70°-80°	300.6	7.1
80°-90°	93.8	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°	1136.1	26.7
0°-40°	1865.5	43.8
0°-60°	3330.3	78.2
0°-90°	4259.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4259.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1465	1465	1465	1465	1465	
5°	1429	1455	1460	1470	1455	137
15°	1398	1398	1404	1404	1404	392
25°	1301	1306	1301	1311	1311	602
35°	1168	1163	1158	1168	1168	733
45°	1014	999	994	984	984	773
55°	804	794	774	774	774	719
65°	569	553	533	528	533	563
75°	307	297	277	256	251	327
85°	77	77	87	82	82	89
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1465.0	1465.0	1465.0	1465.0	1465.0
2.5°	1439.4	1459.9	1459.9	1470.1	1465.0
5°	1429.1	1454.7	1459.9	1470.1	1454.7
7.5°	1454.7	1449.6	1444.5	1454.7	1459.9
10°	1408.6	1429.1	1429.1	1454.7	1439.4
12.5°	1413.8	1418.9	1413.8	1413.8	1429.1
15°	1398.4	1398.4	1403.5	1403.5	1403.5
17.5°	1357.4	1377.9	1383.0	1388.1	1383.0
20°	1352.3	1357.4	1362.5	1367.7	1367.7
22.5°	1342.0	1331.8	1326.7	1347.2	1336.9
25°	1301.1	1306.2	1301.1	1311.3	1311.3
27.5°	1270.3	1270.3	1275.5	1270.3	1280.6
30°	1249.8	1244.7	1234.5	1244.7	1244.7
32.5°	1203.7	1208.9	1208.9	1203.7	1203.7
35°	1167.9	1162.8	1157.6	1167.9	1167.9
37.5°	1142.3	1116.7	1126.9	1121.8	1126.9
40°	1075.7	1091.1	1075.7	1075.7	1080.8
42.5°	1045.0	1039.8	1039.8	1034.7	1034.7
45°	1014.2	998.9	993.7	983.5	983.5
47.5°	957.9	957.9	942.5	932.3	942.5
50°	896.4	901.5	881.0	875.9	886.2
52.5°	865.7	850.3	829.8	834.9	829.8
55°	804.2	794.0	773.5	773.5	773.5
57.5°	747.9	742.7	722.2	717.1	717.1
60°	691.5	681.3	650.5	655.7	660.8
62.5°	635.2	619.8	589.1	599.3	599.3
65°	568.6	553.2	532.7	527.6	532.7
67.5°	507.1	486.6	471.3	466.1	455.9
70°	440.5	430.3	414.9	384.2	379.1
72.5°	373.9	358.6	348.3	312.5	307.3
75°	307.3	297.1	276.6	256.1	251.0
77.5°	245.9	240.7	215.1	215.1	225.4
80°	184.4	179.3	169.0	189.5	199.8
82.5°	128.1	122.9	138.3	143.4	143.4
85°	76.8	76.8	87.1	82.0	82.0
87.5°	30.7	35.9	35.9	41.0	41.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)