

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: P184524

Luminaire Tested: **36EN-LD2-08-UNV-L850-CD1-U**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P184524
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-LD2-08-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: 891.5 lumens
Efficiency: N/A
Efficacy: 90.1 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

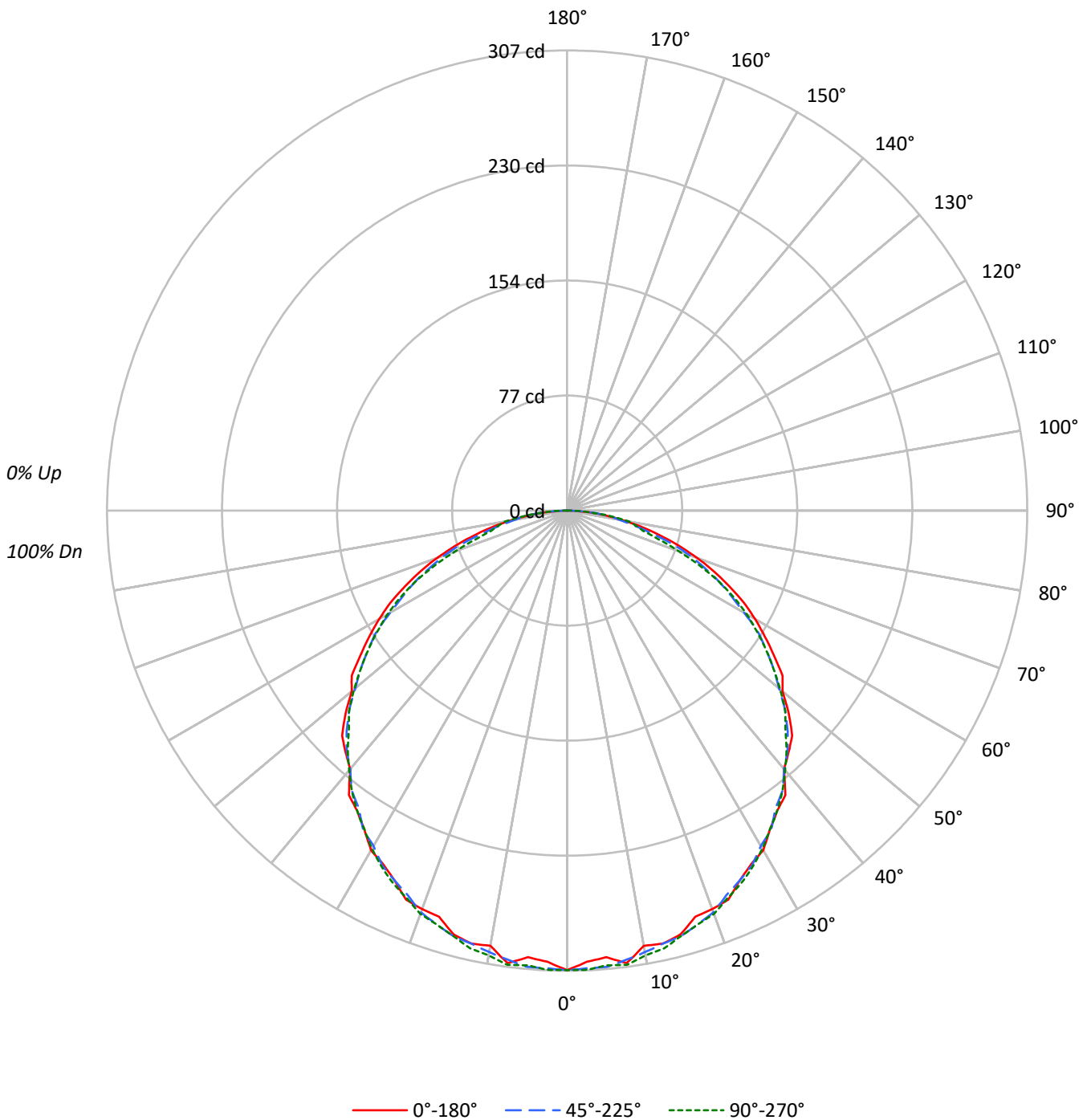
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1650	1650	1650
5°	1616	1651	1645
10°	1611	1635	1647
15°	1631	1637	1637
20°	1621	1633	1640
25°	1617	1617	1630
30°	1626	1606	1619
35°	1606	1592	1606
40°	1581	1581	1589
45°	1616	1583	1567
50°	1571	1544	1553
55°	1579	1519	1519
60°	1558	1466	1489
65°	1515	1420	1420
70°	1451	1366	1248
75°	1337	1204	1092
80°	1196	1097	1296
85°	994	1124	1062



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	29.0	3.3
10°-20°	82.8	9.3
20°-30°	126.0	14.1
30°-40°	152.7	17.1
40°-50°	160.1	18.0
50°-60°	146.5	16.4
60°-70°	111.9	12.6
70°-80°	62.9	7.1
80°-90°	19.6	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°	237.8	26.7
0°-40°	390.5	43.8
0°-60°	697.1	78.2
0°-90°	891.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	891.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	307	307	307	307	307	
5°	299	304	306	308	304	29
15°	293	293	294	294	294	82
25°	272	273	272	274	274	126
35°	244	243	242	244	244	153
45°	212	209	208	206	206	162
55°	168	166	162	162	162	150
65°	119	116	112	110	112	118
75°	64	62	58	54	52	68
85°	16	16	18	17	17	19
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	306.6	306.6	306.6	306.6	306.6
2.5°	301.3	305.6	305.6	307.7	306.6
5°	299.1	304.5	305.6	307.7	304.5
7.5°	304.5	303.4	302.3	304.5	305.6
10°	294.8	299.1	299.1	304.5	301.3
12.5°	295.9	297.0	295.9	295.9	299.1
15°	292.7	292.7	293.8	293.8	293.8
17.5°	284.1	288.4	289.5	290.6	289.5
20°	283.0	284.1	285.2	286.3	286.3
22.5°	280.9	278.8	277.7	282.0	279.8
25°	272.3	273.4	272.3	274.5	274.5
27.5°	265.9	265.9	267.0	265.9	268.0
30°	261.6	260.5	258.4	260.5	260.5
32.5°	252.0	253.0	253.0	252.0	252.0
35°	244.4	243.4	242.3	244.4	244.4
37.5°	239.1	233.7	235.9	234.8	235.9
40°	225.1	228.4	225.1	225.1	226.2
42.5°	218.7	217.6	217.6	216.6	216.6
45°	212.3	209.1	208.0	205.9	205.9
47.5°	200.5	200.5	197.3	195.1	197.3
50°	187.6	188.7	184.4	183.3	185.5
52.5°	181.2	178.0	173.7	174.8	173.7
55°	168.3	166.2	161.9	161.9	161.9
57.5°	156.5	155.5	151.2	150.1	150.1
60°	144.7	142.6	136.2	137.2	138.3
62.5°	132.9	129.7	123.3	125.4	125.4
65°	119.0	115.8	111.5	110.4	111.5
67.5°	106.1	101.9	98.6	97.6	95.4
70°	92.2	90.1	86.8	80.4	79.3
72.5°	78.3	75.0	72.9	65.4	64.3
75°	64.3	62.2	57.9	53.6	52.5
77.5°	51.5	50.4	45.0	45.0	47.2
80°	38.6	37.5	35.4	39.7	41.8
82.5°	26.8	25.7	28.9	30.0	30.0
85°	16.1	16.1	18.2	17.2	17.2
87.5°	6.4	7.5	7.5	8.6	8.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)