

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: P184523

Luminaire Tested: **36EN-LD2-08-UNV-L840-CD1-U**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P184523
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-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: 819.3 lumens
Efficiency: N/A
Efficacy: 82.8 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

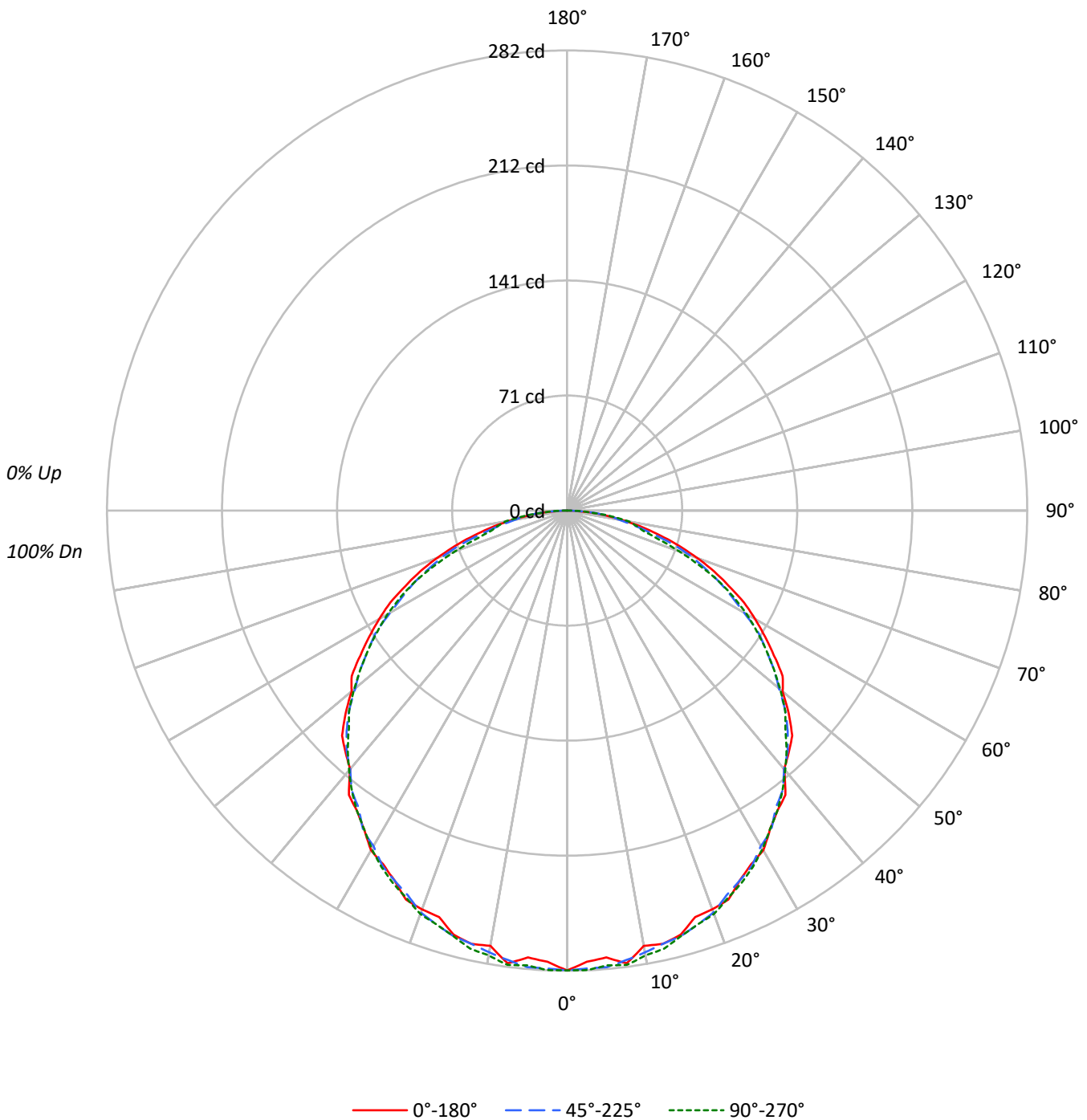
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1517	1517	1517
5°	1485	1517	1512
10°	1480	1502	1513
15°	1499	1504	1504
20°	1490	1501	1507
25°	1486	1486	1498
30°	1494	1475	1488
35°	1476	1463	1476
40°	1454	1454	1461
45°	1485	1455	1440
50°	1443	1419	1427
55°	1452	1396	1396
60°	1432	1347	1368
65°	1393	1305	1305
70°	1333	1256	1147
75°	1229	1106	1004
80°	1100	1007	1190
85°	914	1031	976



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	26.6	3.3
10°-20°	76.1	9.3
20°-30°	115.8	14.1
30°-40°	140.3	17.1
40°-50°	147.1	18.0
50°-60°	134.6	16.4
60°-70°	102.9	12.6
70°-80°	57.8	7.1
80°-90°	18.0	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°	218.5	26.7
0°-40°	358.8	43.8
0°-60°	640.5	78.2
0°-90°	819.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	819.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	282	282	282	282	282	
5°	275	280	281	283	280	26
15°	269	269	270	270	270	75
25°	250	251	250	252	252	116
35°	225	224	223	225	225	141
45°	195	192	191	189	189	149
55°	155	153	149	149	149	138
65°	109	106	102	102	102	108
75°	59	57	53	49	48	63
85°	15	15	17	16	16	17
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	281.8	281.8	281.8	281.8	281.8
2.5°	276.8	280.8	280.8	282.8	281.8
5°	274.9	279.8	280.8	282.8	279.8
7.5°	279.8	278.8	277.8	279.8	280.8
10°	270.9	274.9	274.9	279.8	276.8
12.5°	271.9	272.9	271.9	271.9	274.9
15°	269.0	269.0	269.9	269.9	269.9
17.5°	261.1	265.0	266.0	267.0	266.0
20°	260.1	261.1	262.1	263.1	263.1
22.5°	258.1	256.2	255.2	259.1	257.1
25°	250.2	251.2	250.2	252.2	252.2
27.5°	244.3	244.3	245.3	244.3	246.3
30°	240.4	239.4	237.4	239.4	239.4
32.5°	231.5	232.5	232.5	231.5	231.5
35°	224.6	223.6	222.7	224.6	224.6
37.5°	219.7	214.8	216.7	215.8	216.7
40°	206.9	209.8	206.9	206.9	207.9
42.5°	201.0	200.0	200.0	199.0	199.0
45°	195.1	192.1	191.1	189.2	189.2
47.5°	184.2	184.2	181.3	179.3	181.3
50°	172.4	173.4	169.5	168.5	170.4
52.5°	166.5	163.5	159.6	160.6	159.6
55°	154.7	152.7	148.8	148.8	148.8
57.5°	143.8	142.9	138.9	137.9	137.9
60°	133.0	131.0	125.1	126.1	127.1
62.5°	122.2	119.2	113.3	115.3	115.3
65°	109.4	106.4	102.5	101.5	102.5
67.5°	97.5	93.6	90.6	89.7	87.7
70°	84.7	82.8	79.8	73.9	72.9
72.5°	71.9	69.0	67.0	60.1	59.1
75°	59.1	57.1	53.2	49.3	48.3
77.5°	47.3	46.3	41.4	41.4	43.3
80°	35.5	34.5	32.5	36.5	38.4
82.5°	24.6	23.6	26.6	27.6	27.6
85°	14.8	14.8	16.7	15.8	15.8
87.5°	5.9	6.9	6.9	7.9	7.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)