

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: P184521

Luminaire Tested: **36EN-LD2-08-UNV-L830-CD1-U**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P184521
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-L830-CD1-U
Description: METALUX ENCOUNTER 300X600 TROFFER

Light Source: EATON LED 3000K
Ballast/Driver: OSRAM ELECTRONIC DRIVER

Summary

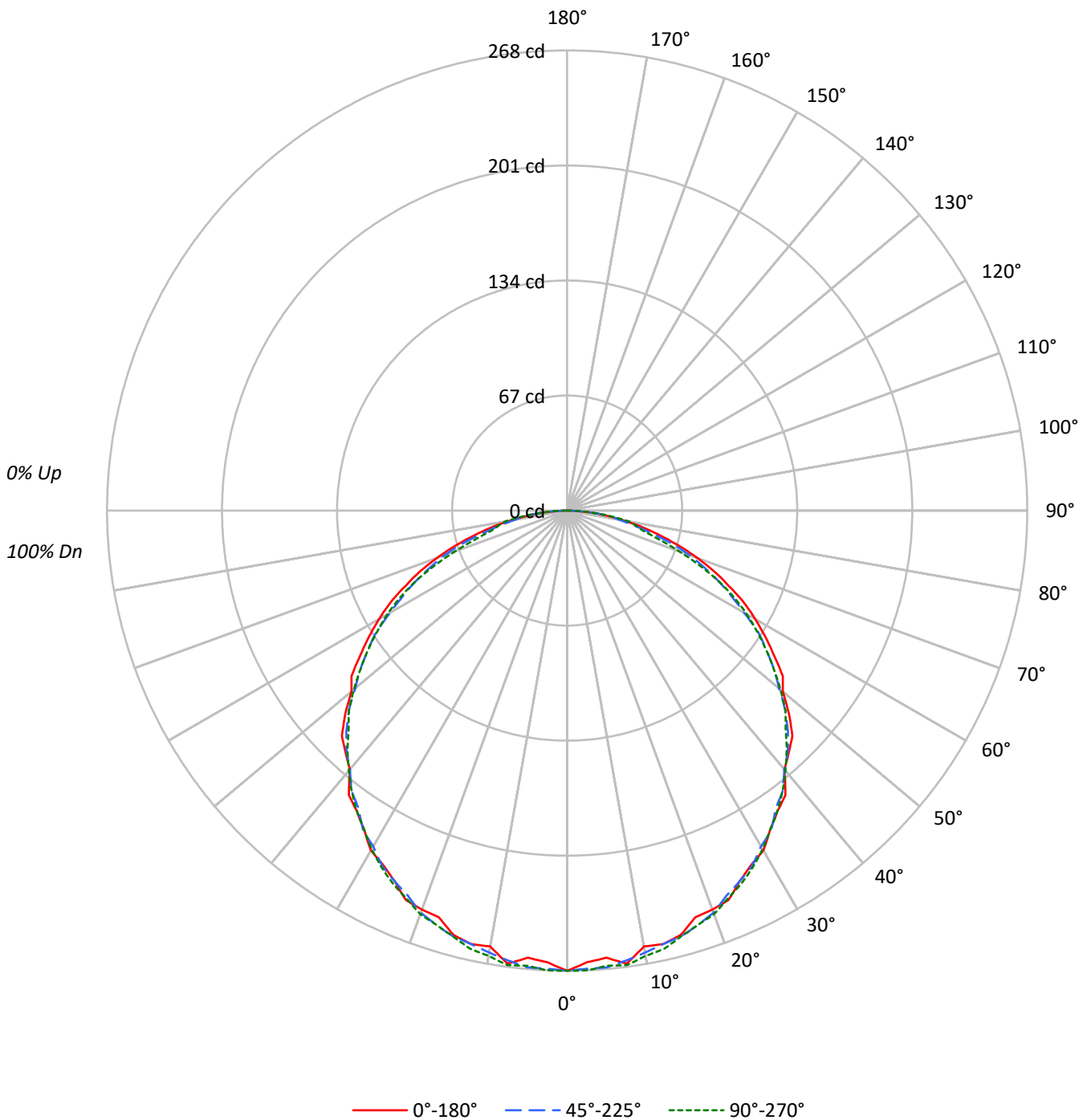
Lumens per Lamp: N/A
Luminaire Lumens: 779.1 lumens
Efficiency: N/A
Efficacy: 78.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.38
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	1442	1442	1442
5°	1412	1442	1438
10°	1408	1429	1439
15°	1425	1430	1430
20°	1416	1427	1433
25°	1413	1413	1425
30°	1421	1403	1415
35°	1403	1391	1403
40°	1383	1383	1389
45°	1412	1384	1369
50°	1373	1349	1357
55°	1380	1328	1328
60°	1362	1281	1301
65°	1324	1240	1240
70°	1268	1194	1090
75°	1169	1052	954
80°	1044	958	1131
85°	871	982	926



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	25.3	3.3
10°-20°	72.4	9.3
20°-30°	110.1	14.1
30°-40°	133.4	17.1
40°-50°	139.9	18.0
50°-60°	128.0	16.4
60°-70°	97.8	12.6
70°-80°	55.0	7.1
80°-90°	17.2	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°	207.8	26.7
0°-40°	341.2	43.8
0°-60°	609.2	78.2
0°-90°	779.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	779.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	268	268	268	268	268	
5°	261	266	267	269	266	25
15°	256	256	257	257	257	72
25°	238	239	238	240	240	110
35°	214	213	212	214	214	134
45°	186	183	182	180	180	141
55°	147	145	142	142	142	131
65°	104	101	97	96	97	103
75°	56	54	51	47	46	60
85°	14	14	16	15	15	16
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	268.0	268.0	268.0	268.0	268.0
2.5°	263.3	267.0	267.0	268.9	268.0
5°	261.4	266.1	267.0	268.9	266.1
7.5°	266.1	265.1	264.2	266.1	267.0
10°	257.7	261.4	261.4	266.1	263.3
12.5°	258.6	259.5	258.6	258.6	261.4
15°	255.8	255.8	256.7	256.7	256.7
17.5°	248.3	252.0	253.0	253.9	253.0
20°	247.3	248.3	249.2	250.2	250.2
22.5°	245.5	243.6	242.7	246.4	244.5
25°	238.0	238.9	238.0	239.9	239.9
27.5°	232.4	232.4	233.3	232.4	234.2
30°	228.6	227.7	225.8	227.7	227.7
32.5°	220.2	221.1	221.1	220.2	220.2
35°	213.6	212.7	211.7	213.6	213.6
37.5°	208.9	204.2	206.1	205.2	206.1
40°	196.8	199.6	196.8	196.8	197.7
42.5°	191.1	190.2	190.2	189.3	189.3
45°	185.5	182.7	181.8	179.9	179.9
47.5°	175.2	175.2	172.4	170.5	172.4
50°	164.0	164.9	161.1	160.2	162.1
52.5°	158.3	155.5	151.8	152.7	151.8
55°	147.1	145.2	141.5	141.5	141.5
57.5°	136.8	135.9	132.1	131.2	131.2
60°	126.5	124.6	119.0	119.9	120.9
62.5°	116.2	113.4	107.7	109.6	109.6
65°	104.0	101.2	97.4	96.5	97.4
67.5°	92.8	89.0	86.2	85.3	83.4
70°	80.6	78.7	75.9	70.3	69.3
72.5°	68.4	65.6	63.7	57.2	56.2
75°	56.2	54.3	50.6	46.8	45.9
77.5°	45.0	44.0	39.4	39.4	41.2
80°	33.7	32.8	30.9	34.7	36.5
82.5°	23.4	22.5	25.3	26.2	26.2
85°	14.1	14.1	15.9	15.0	15.0
87.5°	5.6	6.6	6.6	7.5	7.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)