

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: P184556

Luminaire Tested: **36EN-LD2-39-UNV-L830-CD1-U**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P184556
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-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: 3722.3 lumens
Efficiency: N/A
Efficacy: 105.1 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

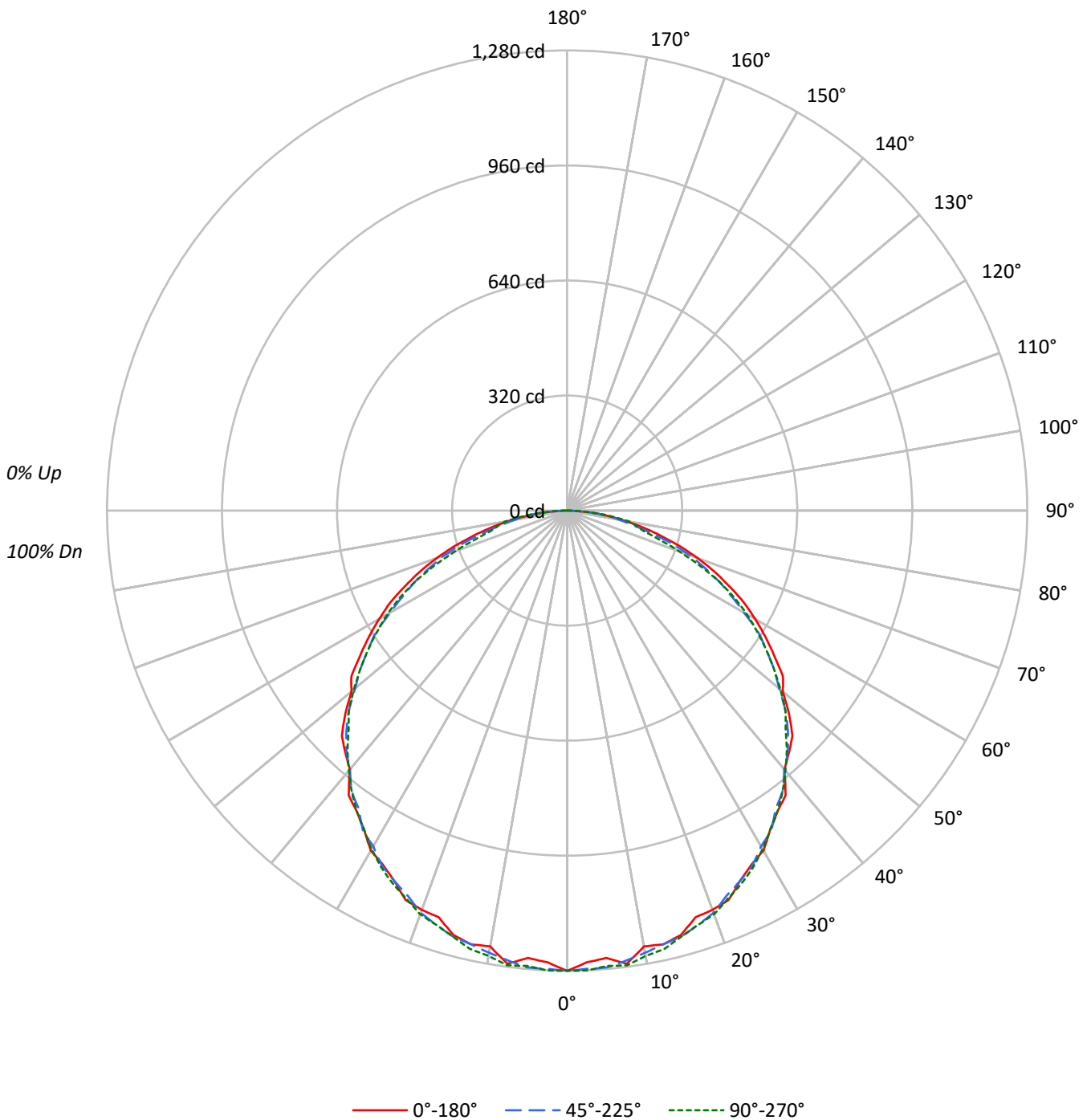
Input Watts (W): 35.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	109	104	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83					83			
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69					69			
3	90	79	71	64	87	77	70	63	74	68	62	72	66	61	69	64	60	58					58			
4	82	70	61	54	80	69	60	54	66	59	53	64	57	52	61	56	52	49					49			
5	75	62	53	46	73	61	53	46	59	52	46	57	50	45	55	49	45	43					43			
6	70	56	47	40	68	55	47	40	53	46	40	52	45	40	50	44	39	37					37			
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	46	39	35	33					33			
8	60	46	38	32	58	46	37	32	44	37	31	43	36	31	42	36	31	29					29			
9	56	42	34	29	55	42	34	28	41	33	28	40	33	28	39	32	28	26					26			
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	25	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6890	6890	6890
5°	6747	6892	6868
10°	6727	6825	6874
15°	6809	6834	6834
20°	6768	6820	6845
25°	6752	6752	6805
30°	6788	6704	6760
35°	6706	6646	6706
40°	6604	6604	6636
45°	6746	6610	6541
50°	6558	6446	6484
55°	6594	6342	6342
60°	6505	6119	6215
65°	6328	5928	5928
70°	6058	5706	5212
75°	5585	5026	4560
80°	4993	4578	5411
85°	4143	4699	4421



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.0	3.3
10°-20°	345.7	9.3
20°-30°	526.2	14.1
30°-40°	637.4	17.1
40°-50°	668.6	18.0
50°-60°	611.5	16.4
60°-70°	467.3	12.6
70°-80°	262.7	7.1
80°-90°	82.0	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°	992.8	26.7
0°-40°	1630.2	43.8
0°-60°	2910.3	78.2
0°-90°	3722.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3722.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1280	1280	1280	1280	1280	
5°	1249	1271	1276	1285	1271	120
15°	1222	1222	1226	1226	1226	343
25°	1137	1141	1137	1146	1146	526
35°	1021	1016	1012	1021	1021	640
45°	886	873	868	859	859	676
55°	703	694	676	676	676	628
65°	497	483	466	461	466	492
75°	269	260	242	224	219	286
85°	67	67	76	72	72	78
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1280.2	1280.2	1280.2	1280.2	1280.2
2.5°	1257.8	1275.7	1275.7	1284.7	1280.2
5°	1248.9	1271.3	1275.7	1284.7	1271.3
7.5°	1271.3	1266.8	1262.3	1271.3	1275.7
10°	1231.0	1248.9	1248.9	1271.3	1257.8
12.5°	1235.4	1239.9	1235.4	1235.4	1248.9
15°	1222.0	1222.0	1226.5	1226.5	1226.5
17.5°	1186.2	1204.1	1208.6	1213.1	1208.6
20°	1181.7	1186.2	1190.7	1195.2	1195.2
22.5°	1172.8	1163.8	1159.3	1177.3	1168.3
25°	1137.0	1141.4	1137.0	1145.9	1145.9
27.5°	1110.1	1110.1	1114.6	1110.1	1119.1
30°	1092.2	1087.7	1078.8	1087.7	1087.7
32.5°	1051.9	1056.4	1056.4	1051.9	1051.9
35°	1020.6	1016.1	1011.6	1020.6	1020.6
37.5°	998.2	975.8	984.8	980.3	984.8
40°	940.0	953.4	940.0	940.0	944.5
42.5°	913.2	908.7	908.7	904.2	904.2
45°	886.3	872.9	868.4	859.4	859.4
47.5°	837.1	837.1	823.6	814.7	823.6
50°	783.3	787.8	769.9	765.4	774.4
52.5°	756.5	743.1	725.2	729.6	725.2
55°	702.8	693.8	675.9	675.9	675.9
57.5°	653.5	649.1	631.2	626.7	626.7
60°	604.3	595.3	568.5	573.0	577.4
62.5°	555.1	541.6	514.8	523.7	523.7
65°	496.9	483.4	465.5	461.1	465.5
67.5°	443.1	425.2	411.8	407.3	398.4
70°	385.0	376.0	362.6	335.7	331.2
72.5°	326.8	313.3	304.4	273.1	268.6
75°	268.6	259.6	241.7	223.8	219.3
77.5°	214.9	210.4	188.0	188.0	197.0
80°	161.1	156.7	147.7	165.6	174.6
82.5°	111.9	107.4	120.9	125.3	125.3
85°	67.1	67.1	76.1	71.6	71.6
87.5°	26.9	31.3	31.3	35.8	35.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)