

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: P184526

Luminaire Tested: **36EN-LD2-13-UNV-L830-CD1-U**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P184526
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-LD2-13-UNV-L830-CD1-U
Description: METALUX ENCOUNTER 300X600 TROFFER

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

Summary

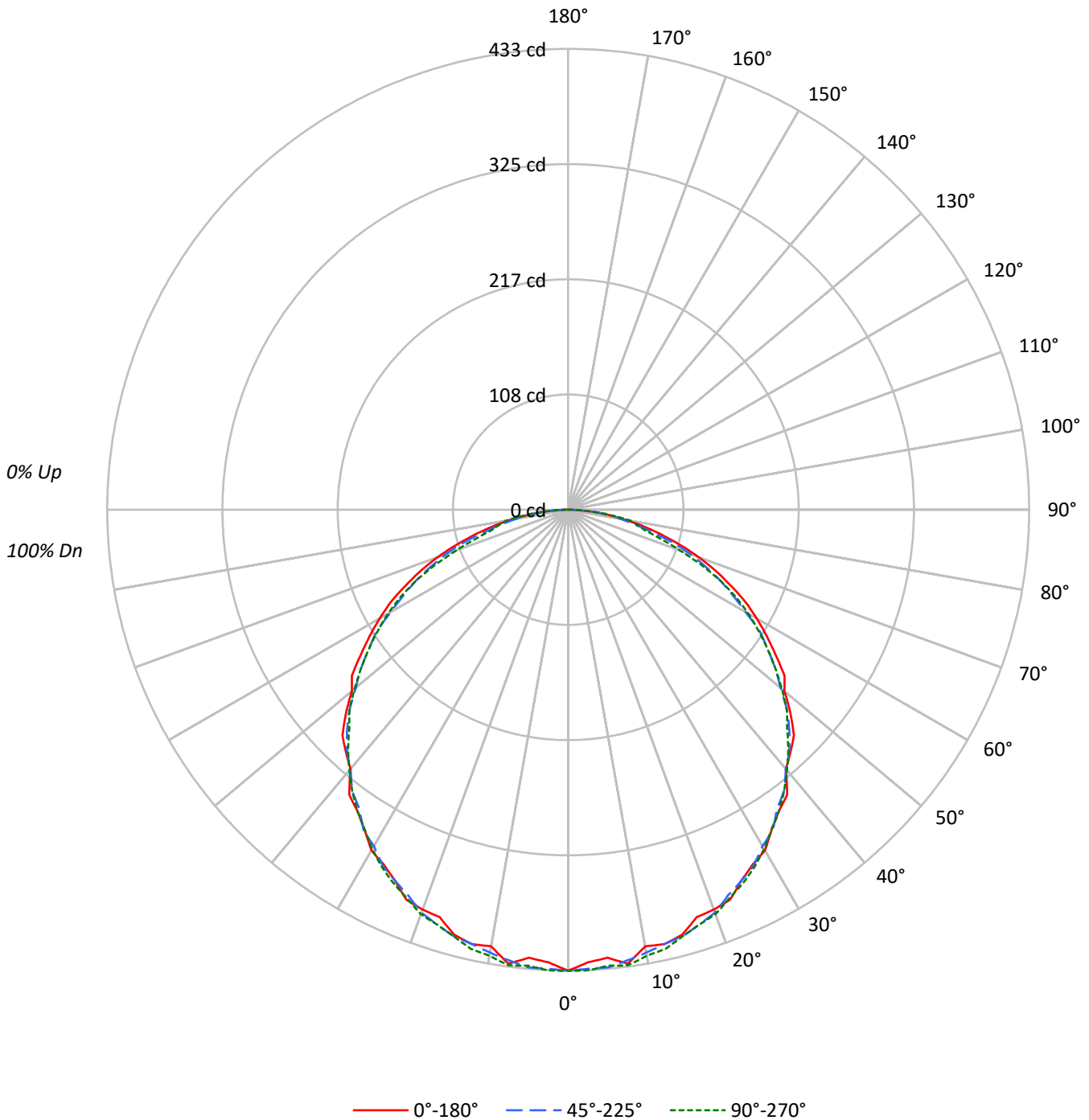
Lumens per Lamp: N/A
Luminaire Lumens: 1259.5 lumens
Efficiency: N/A
Efficacy: 103.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.38
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 12.2
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°	2331	2331	2331
5°	2283	2332	2324
10°	2276	2310	2326
15°	2304	2312	2312
20°	2290	2308	2316
25°	2284	2284	2302
30°	2297	2268	2287
35°	2269	2249	2269
40°	2235	2235	2245
45°	2283	2236	2213
50°	2220	2181	2194
55°	2231	2146	2146
60°	2201	2071	2103
65°	2141	2006	2006
70°	2050	1931	1764
75°	1890	1701	1543
80°	1689	1550	1832
85°	1402	1587	1494



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.9	3.3
10°-20°	117.0	9.3
20°-30°	178.0	14.1
30°-40°	215.7	17.1
40°-50°	226.2	18.0
50°-60°	206.9	16.4
60°-70°	158.1	12.6
70°-80°	88.9	7.1
80°-90°	27.7	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°	335.9	26.7
0°-40°	551.6	43.8
0°-60°	984.7	78.2
0°-90°	1259.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1259.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	433	433	433	433	433	
5°	423	430	432	435	430	41
15°	414	414	415	415	415	116
25°	385	386	385	388	388	178
35°	345	344	342	345	345	217
45°	300	295	294	291	291	229
55°	238	235	229	229	229	212
65°	168	164	158	156	158	167
75°	91	88	82	76	74	97
85°	23	23	26	24	24	26
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	433.2	433.2	433.2	433.2	433.2
2.5°	425.6	431.7	431.7	434.7	433.2
5°	422.6	430.1	431.7	434.7	430.1
7.5°	430.1	428.6	427.1	430.1	431.7
10°	416.5	422.6	422.6	430.1	425.6
12.5°	418.0	419.5	418.0	418.0	422.6
15°	413.5	413.5	415.0	415.0	415.0
17.5°	401.4	407.4	408.9	410.5	408.9
20°	399.9	401.4	402.9	404.4	404.4
22.5°	396.8	393.8	392.3	398.3	395.3
25°	384.7	386.2	384.7	387.7	387.7
27.5°	375.6	375.6	377.1	375.6	378.7
30°	369.6	368.0	365.0	368.0	368.0
32.5°	355.9	357.4	357.4	355.9	355.9
35°	345.3	343.8	342.3	345.3	345.3
37.5°	337.8	330.2	333.2	331.7	333.2
40°	318.1	322.6	318.1	318.1	319.6
42.5°	309.0	307.5	307.5	306.0	306.0
45°	299.9	295.3	293.8	290.8	290.8
47.5°	283.2	283.2	278.7	275.7	278.7
50°	265.1	266.6	260.5	259.0	262.0
52.5°	256.0	251.4	245.4	246.9	245.4
55°	237.8	234.8	228.7	228.7	228.7
57.5°	221.1	219.6	213.6	212.0	212.0
60°	204.5	201.4	192.4	193.9	195.4
62.5°	187.8	183.3	174.2	177.2	177.2
65°	168.1	163.6	157.5	156.0	157.5
67.5°	149.9	143.9	139.3	137.8	134.8
70°	130.3	127.2	122.7	113.6	112.1
72.5°	110.6	106.0	103.0	92.4	90.9
75°	90.9	87.8	81.8	75.7	74.2
77.5°	72.7	71.2	63.6	63.6	66.6
80°	54.5	53.0	50.0	56.0	59.1
82.5°	37.9	36.4	40.9	42.4	42.4
85°	22.7	22.7	25.7	24.2	24.2
87.5°	9.1	10.6	10.6	12.1	12.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)