

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: P184532

Luminaire Tested: **36EN-LD2-17-UNV-L835-CD1-U**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P184532
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-LD2-17-UNV-L835-CD1-U
Description: METALUX ENCOUNTER 300X600 TROFFER

Light Source: EATON LED 3500K
Ballast/Driver: OSRAM ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1710.7 lumens
Efficiency: N/A
Efficacy: 109.0 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

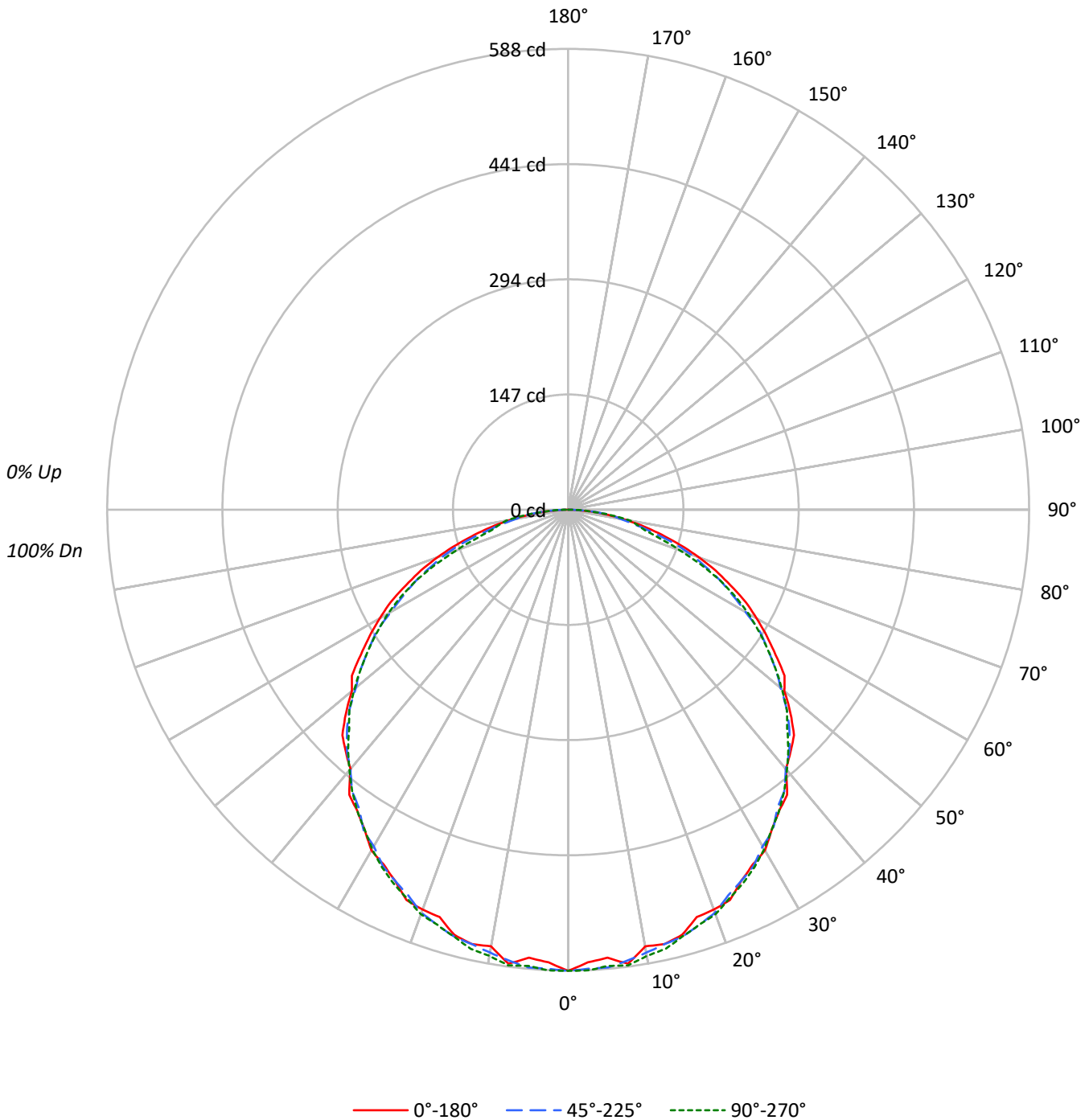
Input Watts (W): 15.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3166	3166	3166
5°	3101	3167	3156
10°	3092	3136	3159
15°	3129	3141	3141
20°	3111	3134	3146
25°	3103	3103	3127
30°	3119	3081	3107
35°	3081	3054	3081
40°	3035	3035	3050
45°	3100	3038	3006
50°	3014	2962	2980
55°	3031	2914	2914
60°	2989	2813	2857
65°	2907	2724	2724
70°	2784	2622	2395
75°	2566	2310	2096
80°	2297	2104	2486
85°	1908	2161	2032



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.6	3.3
10°-20°	158.9	9.3
20°-30°	241.8	14.1
30°-40°	292.9	17.1
40°-50°	307.2	18.0
50°-60°	281.0	16.4
60°-70°	214.8	12.6
70°-80°	120.7	7.1
80°-90°	37.7	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°	456.3	26.7
0°-40°	749.2	43.8
0°-60°	1337.5	78.2
0°-90°	1710.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1710.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	588	588	588	588	588	
5°	574	584	586	590	584	55
15°	562	562	564	564	564	157
25°	522	525	522	527	527	242
35°	469	467	465	469	469	294
45°	407	401	399	395	395	311
55°	323	319	311	311	311	289
65°	228	222	214	212	214	226
75°	123	119	111	103	101	131
85°	31	31	35	33	33	36
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	588.3	588.3	588.3	588.3	588.3
2.5°	578.1	586.3	586.3	590.4	588.3
5°	573.9	584.2	586.3	590.4	584.2
7.5°	584.2	582.2	580.1	584.2	586.3
10°	565.7	573.9	573.9	584.2	578.1
12.5°	567.8	569.8	567.8	567.8	573.9
15°	561.6	561.6	563.7	563.7	563.7
17.5°	545.1	553.4	555.4	557.5	555.4
20°	543.1	545.1	547.2	549.3	549.3
22.5°	539.0	534.9	532.8	541.0	536.9
25°	522.5	524.6	522.5	526.6	526.6
27.5°	510.2	510.2	512.2	510.2	514.3
30°	501.9	499.9	495.8	499.9	499.9
32.5°	483.4	485.5	485.5	483.4	483.4
35°	469.0	467.0	464.9	469.0	469.0
37.5°	458.7	448.5	452.6	450.5	452.6
40°	432.0	438.2	432.0	432.0	434.1
42.5°	419.7	417.6	417.6	415.5	415.5
45°	407.3	401.1	399.1	395.0	395.0
47.5°	384.7	384.7	378.5	374.4	378.5
50°	360.0	362.1	353.8	351.8	355.9
52.5°	347.7	341.5	333.3	335.3	333.3
55°	323.0	318.9	310.6	310.6	310.6
57.5°	300.3	298.3	290.1	288.0	288.0
60°	277.7	273.6	261.3	263.3	265.4
62.5°	255.1	248.9	236.6	240.7	240.7
65°	228.3	222.2	213.9	211.9	213.9
67.5°	203.7	195.4	189.3	187.2	183.1
70°	176.9	172.8	166.6	154.3	152.2
72.5°	150.2	144.0	139.9	125.5	123.4
75°	123.4	119.3	111.1	102.9	100.8
77.5°	98.7	96.7	86.4	86.4	90.5
80°	74.1	72.0	67.9	76.1	80.2
82.5°	51.4	49.4	55.5	57.6	57.6
85°	30.9	30.9	35.0	32.9	32.9
87.5°	12.3	14.4	14.4	16.5	16.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)