

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: P184533

Luminaire Tested: **36EN-LD2-17-UNV-L840-CD1-U**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P184533
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-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: 1744.9 lumens
Efficiency: N/A
Efficacy: 111.1 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

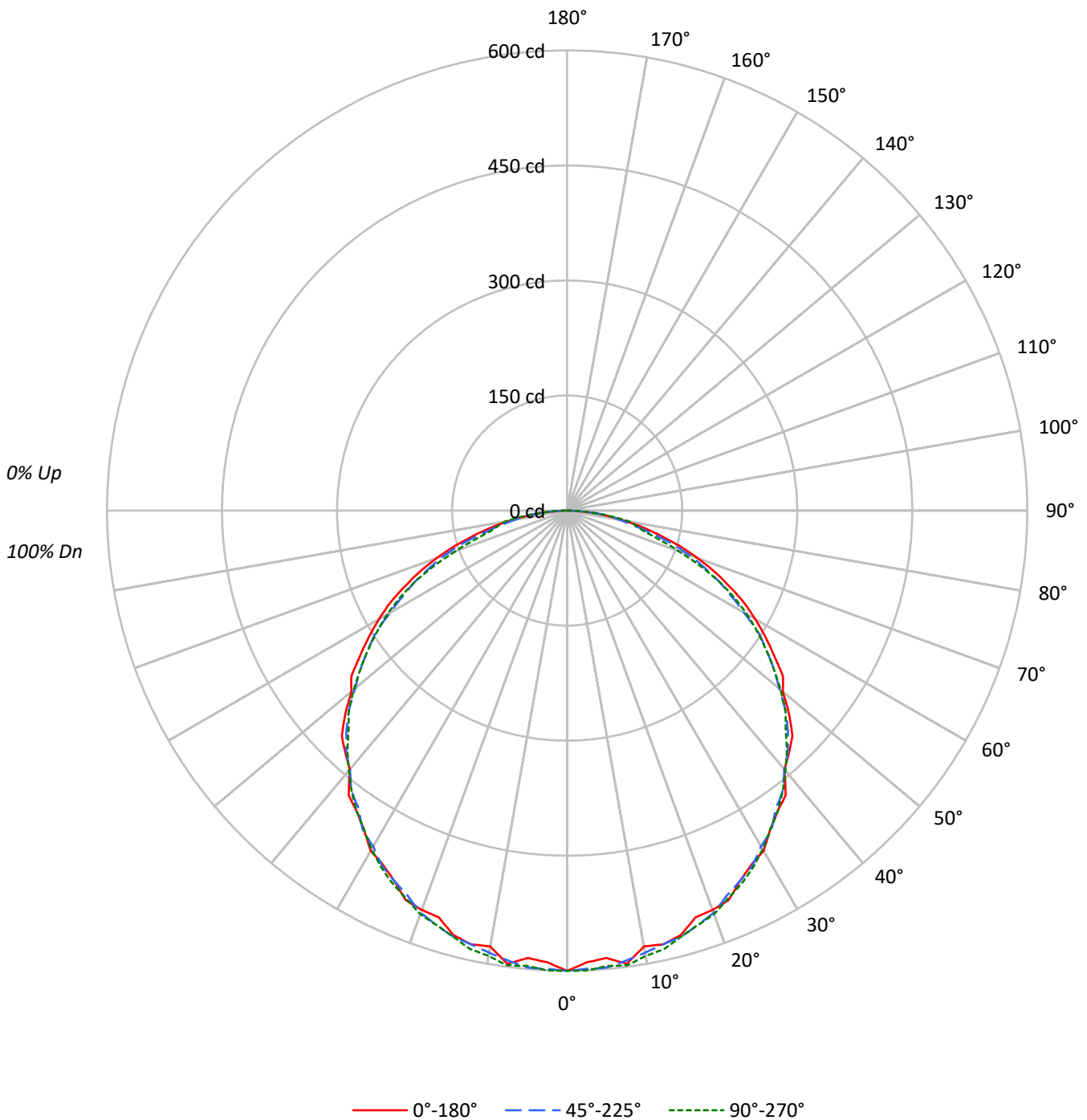
Input Watts (W): 15.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3230	3230	3230
5°	3163	3231	3219
10°	3153	3199	3222
15°	3192	3203	3203
20°	3173	3197	3208
25°	3165	3165	3190
30°	3182	3143	3169
35°	3143	3116	3143
40°	3095	3095	3110
45°	3162	3099	3067
50°	3075	3022	3039
55°	3091	2973	2973
60°	3049	2869	2914
65°	2966	2779	2779
70°	2840	2675	2444
75°	2618	2356	2138
80°	2340	2145	2535
85°	1945	2205	2075



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.7	3.3
10°-20°	162.0	9.3
20°-30°	246.7	14.1
30°-40°	298.8	17.1
40°-50°	313.4	18.0
50°-60°	286.7	16.4
60°-70°	219.1	12.6
70°-80°	123.1	7.1
80°-90°	38.4	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°	465.4	26.7
0°-40°	764.2	43.8
0°-60°	1364.2	78.2
0°-90°	1744.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1744.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	600	600	600	600	600	
5°	585	596	598	602	596	56
15°	573	573	575	575	575	161
25°	533	535	533	537	537	247
35°	478	476	474	478	478	300
45°	416	409	407	403	403	317
55°	329	325	317	317	317	294
65°	233	227	218	216	218	231
75°	126	122	113	105	103	134
85°	32	32	36	34	34	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	600.1	600.1	600.1	600.1	600.1
2.5°	589.6	598.0	598.0	602.2	600.1
5°	585.4	595.9	598.0	602.2	595.9
7.5°	595.9	593.8	591.7	595.9	598.0
10°	577.0	585.4	585.4	595.9	589.6
12.5°	579.1	581.2	579.1	579.1	585.4
15°	572.8	572.8	574.9	574.9	574.9
17.5°	556.1	564.4	566.5	568.6	566.5
20°	554.0	556.1	558.2	560.2	560.2
22.5°	549.8	545.6	543.5	551.9	547.7
25°	533.0	535.1	533.0	537.2	537.2
27.5°	520.4	520.4	522.5	520.4	524.6
30°	512.0	509.9	505.7	509.9	509.9
32.5°	493.1	495.2	495.2	493.1	493.1
35°	478.4	476.3	474.2	478.4	478.4
37.5°	467.9	457.4	461.6	459.5	461.6
40°	440.6	446.9	440.6	440.6	442.7
42.5°	428.1	426.0	426.0	423.9	423.9
45°	415.5	409.2	407.1	402.9	402.9
47.5°	392.4	392.4	386.1	381.9	386.1
50°	367.2	369.3	360.9	358.8	363.0
52.5°	354.6	348.3	339.9	342.0	339.9
55°	329.4	325.2	316.8	316.8	316.8
57.5°	306.4	304.3	295.9	293.8	293.8
60°	283.3	279.1	266.5	268.6	270.7
62.5°	260.2	253.9	241.3	245.5	245.5
65°	232.9	226.6	218.2	216.1	218.2
67.5°	207.7	199.3	193.0	190.9	186.7
70°	180.5	176.3	170.0	157.4	155.3
72.5°	153.2	146.9	142.7	128.0	125.9
75°	125.9	121.7	113.3	104.9	102.8
77.5°	100.7	98.6	88.1	88.1	92.3
80°	75.5	73.4	69.2	77.6	81.8
82.5°	52.5	50.4	56.7	58.8	58.8
85°	31.5	31.5	35.7	33.6	33.6
87.5°	12.6	14.7	14.7	16.8	16.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)