

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: P184489

Luminaire Tested: **312EN-LD2-25-UNV-L850-CD1-U**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P184489
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34485)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: 312EN-LD2-25-UNV-L850-CD1-U
Description: METALUX ENCOUNTER 300X1200 TROFFER

Light Source: EATON LED 5000K
Ballast/Driver: OSRAM ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2705.3 lumens
Efficiency: N/A
Efficacy: 129.4 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.31 / 1.41
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

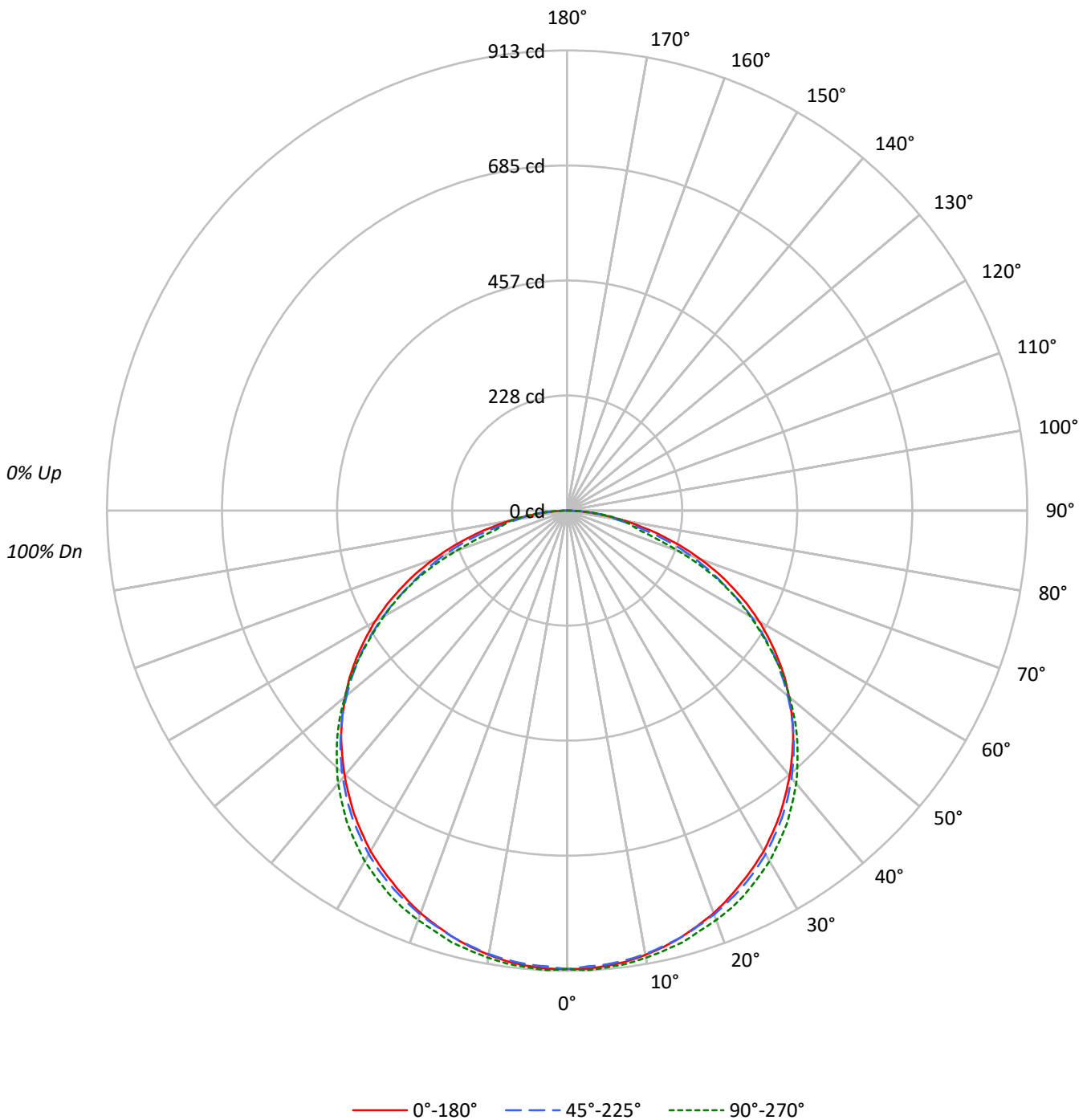
Input Watts (W): 20.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	91	88	90	87	85	83
2	99	90	83	77	96	88	82	77	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	77	70	64	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	51	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	41	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	28	55	42	34	28	41	33	28	40	33	28	39	32	28	26
10	52	39	31	26	51	39	31	26	38	30	26	37	30	25	36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2448	2448	2448
5°	2450	2442	2457
10°	2446	2442	2462
15°	2441	2441	2469
20°	2434	2442	2476
25°	2424	2446	2489
30°	2424	2446	2496
35°	2418	2442	2495
40°	2412	2433	2484
45°	2414	2419	2458
50°	2405	2393	2411
55°	2394	2353	2346
60°	2370	2275	2260
65°	2311	2163	2145
70°	2214	2054	1847
75°	2046	1818	1516
80°	1785	1536	1740
85°	1349	1621	1575



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.2	3.2
10°-20°	248.2	9.2
20°-30°	380.7	14.1
30°-40°	466.2	17.2
40°-50°	491.6	18.2
50°-60°	449.0	16.6
60°-70°	341.1	12.6
70°-80°	186.3	6.9
80°-90°	55.9	2.1
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°	715.1	26.4
0°-40°	1181.4	43.7
0°-60°	2121.9	78.4
0°-90°	2705.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2705.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	910	910	910	910	910	
5°	907	907	904	908	910	86
15°	876	876	876	884	886	247
25°	816	818	824	834	838	377
35°	736	736	744	754	760	460
45°	634	634	636	642	646	489
55°	510	509	502	497	500	456
65°	363	356	340	337	337	359
75°	197	190	175	150	146	208
85°	44	47	52	51	51	54
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	909.7	909.7	909.7	909.7	909.7
2.5°	909.7	909.7	905.4	909.7	912.7
5°	906.8	906.8	903.9	908.3	909.7
7.5°	902.5	902.5	899.5	903.9	906.8
10°	895.2	895.2	893.7	898.1	901.0
12.5°	886.4	886.4	885.0	890.8	893.7
15°	876.2	876.2	876.2	883.5	886.4
17.5°	863.1	864.5	864.5	871.8	874.7
20°	850.0	851.4	852.9	861.6	864.5
22.5°	833.9	833.9	838.3	848.5	852.9
25°	816.4	817.9	823.7	833.9	838.3
27.5°	798.9	800.4	806.2	816.4	820.8
30°	780.0	781.4	787.3	797.5	803.3
32.5°	758.1	759.6	765.4	777.1	781.4
35°	736.2	736.2	743.5	753.7	759.6
37.5°	711.5	712.9	718.8	729.0	733.3
40°	686.7	688.1	692.5	701.3	707.1
42.5°	660.4	661.9	664.8	672.1	676.5
45°	634.2	634.2	635.7	641.5	645.9
47.5°	605.0	605.0	605.0	608.0	612.3
50°	574.4	574.4	571.5	573.0	575.9
52.5°	543.8	542.3	536.5	536.5	540.9
55°	510.3	508.8	501.5	497.1	500.1
57.5°	475.3	472.4	462.2	457.8	459.2
60°	440.3	435.9	422.8	417.0	419.9
62.5°	402.4	398.0	382.0	377.6	380.5
65°	363.0	355.7	339.7	336.8	336.8
67.5°	323.7	314.9	300.3	293.0	288.7
70°	281.4	272.6	261.0	243.5	234.7
72.5°	239.1	231.8	220.1	193.9	185.2
75°	196.8	189.5	174.9	150.2	145.8
77.5°	154.5	150.2	131.2	123.9	128.3
80°	115.2	115.2	99.1	107.9	112.3
82.5°	77.3	74.4	81.6	83.1	83.1
85°	43.7	46.7	52.5	51.0	51.0
87.5°	19.0	21.9	23.3	21.9	21.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)