

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: P184494

Luminaire Tested: **312EN-LD2-28-UNV-L850-CD1-U**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P184494
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-LD2-28-UNV-L850-CD1-U
Description: METALUX ENCOUNTER 300X1200 TROFFER

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

Summary

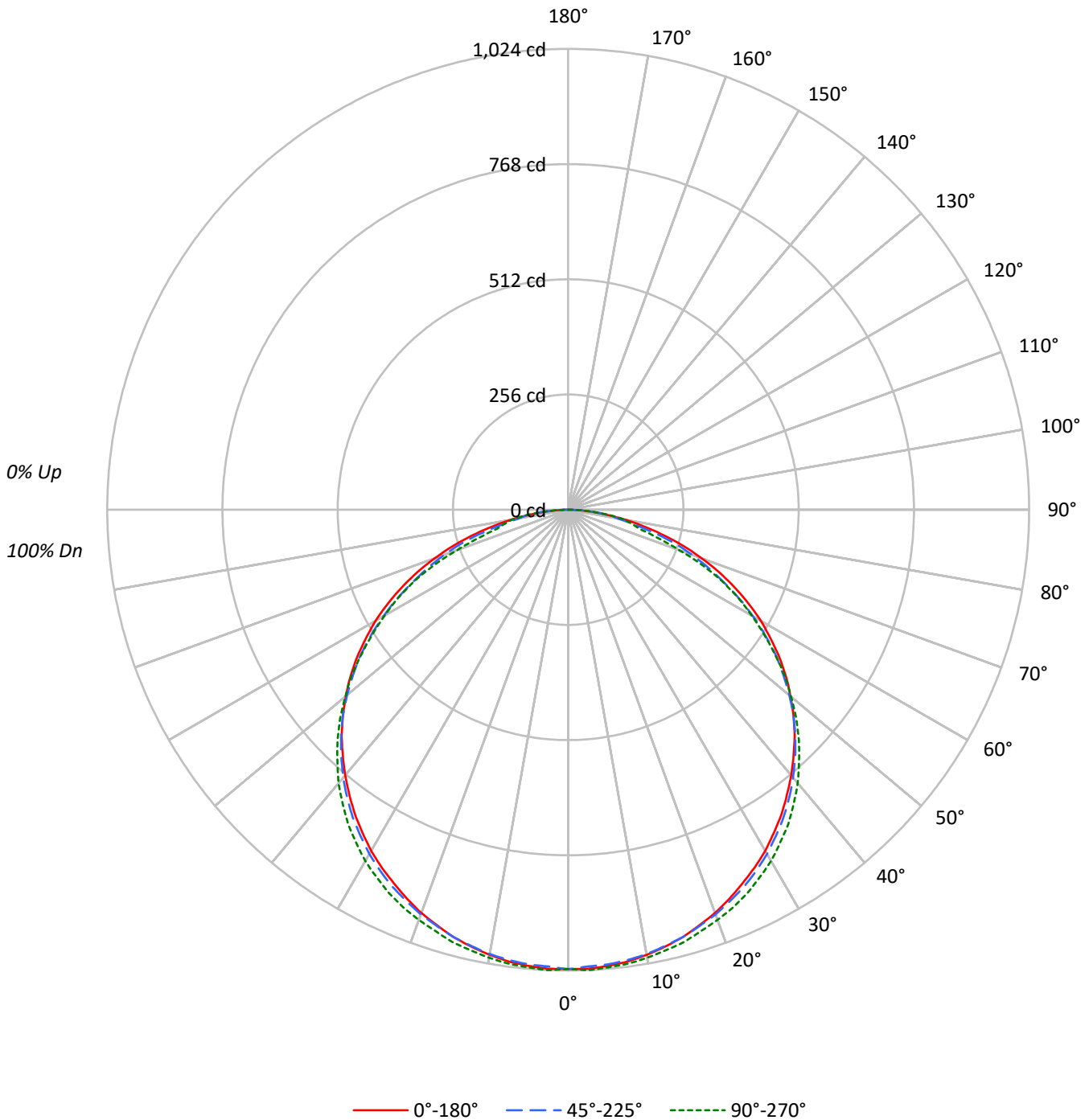
Lumens per Lamp: N/A
Luminaire Lumens: 3035.5 lumens
Efficiency: N/A
Efficacy: 128.6 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.31 / 1.41
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 23.6
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	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°	2747	2747	2747
5°	2749	2740	2757
10°	2745	2740	2763
15°	2739	2739	2771
20°	2731	2741	2778
25°	2720	2744	2793
30°	2719	2745	2801
35°	2714	2741	2800
40°	2707	2729	2787
45°	2708	2714	2758
50°	2698	2685	2705
55°	2686	2640	2632
60°	2659	2553	2535
65°	2593	2427	2406
70°	2484	2304	2072
75°	2296	2041	1701
80°	2002	1723	1953
85°	1516	1819	1769



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.7	3.2
10°-20°	278.5	9.2
20°-30°	427.2	14.1
30°-40°	523.1	17.2
40°-50°	551.5	18.2
50°-60°	503.8	16.6
60°-70°	382.8	12.6
70°-80°	209.0	6.9
80°-90°	62.7	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°	802.4	26.4
0°-40°	1325.6	43.7
0°-60°	2380.9	78.4
0°-90°	3035.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3035.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1021	1021	1021	1021	1021	
5°	1018	1018	1014	1019	1021	97
15°	983	983	983	991	995	277
25°	916	918	924	936	941	423
35°	826	826	834	846	852	517
45°	712	712	713	720	725	548
55°	573	571	563	558	561	511
65°	407	399	381	378	378	403
75°	221	213	196	168	164	233
85°	49	52	59	57	57	60
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1020.8	1020.8	1020.8	1020.8	1020.8
2.5°	1020.8	1020.8	1015.9	1020.8	1024.1
5°	1017.5	1017.5	1014.2	1019.1	1020.8
7.5°	1012.6	1012.6	1009.3	1014.2	1017.5
10°	1004.4	1004.4	1002.8	1007.7	1011.0
12.5°	994.6	994.6	993.0	999.5	1002.8
15°	983.2	983.2	983.2	991.3	994.6
17.5°	968.4	970.1	970.1	978.2	981.5
20°	953.7	955.3	957.0	966.8	970.1
22.5°	935.7	935.7	940.6	952.1	957.0
25°	916.1	917.7	924.3	935.7	940.6
27.5°	896.5	898.1	904.6	916.1	921.0
30°	875.2	876.8	883.4	894.8	901.4
32.5°	850.7	852.3	858.8	871.9	876.8
35°	826.1	826.1	834.3	845.7	852.3
37.5°	798.3	799.9	806.5	817.9	822.8
40°	770.5	772.1	777.0	786.9	793.4
42.5°	741.0	742.7	746.0	754.1	759.0
45°	711.6	711.6	713.2	719.8	724.7
47.5°	678.9	678.9	678.9	682.2	687.1
50°	644.5	644.5	641.3	642.9	646.2
52.5°	610.2	608.5	602.0	602.0	606.9
55°	572.6	570.9	562.7	557.8	561.1
57.5°	533.3	530.0	518.6	513.7	515.3
60°	494.0	489.1	474.4	467.9	471.1
62.5°	451.5	446.6	428.6	423.7	427.0
65°	407.3	399.2	381.2	377.9	377.9
67.5°	363.2	353.3	337.0	328.8	323.9
70°	315.7	305.9	292.8	273.2	263.4
72.5°	268.3	260.1	247.0	217.6	207.8
75°	220.8	212.7	196.3	168.5	163.6
77.5°	173.4	168.5	147.2	139.0	144.0
80°	129.2	129.2	111.2	121.1	126.0
82.5°	86.7	83.4	91.6	93.2	93.2
85°	49.1	52.3	58.9	57.3	57.3
87.5°	21.3	24.5	26.2	24.5	24.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)