

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: P184407

Luminaire Tested: **612EN-LD2-34-UNV-L835-CD1-U**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P184407
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34470)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: 612EN-LD2-34-UNV-L835-CD1-U
Description: METALUX ENCOUNTER 600X1200 TROFFER

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

Summary

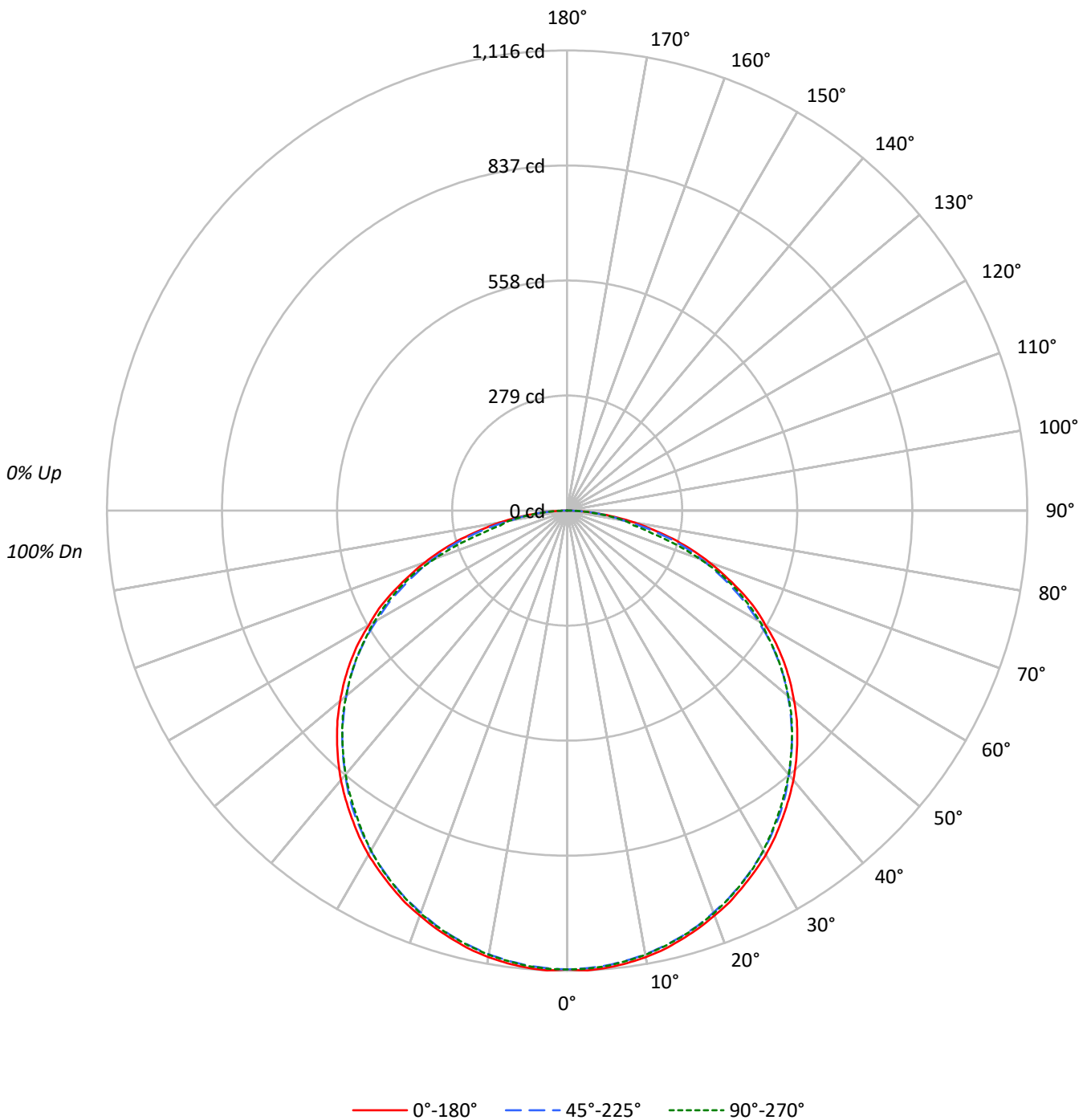
Lumens per Lamp: N/A
Luminaire Lumens: 3368.4 lumens
Efficiency: N/A
Efficacy: 117.4 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.27 / 1.4
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 28.7
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	108	103	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83
2	98	90	83	77	95	88	81	76	84	79	74	81	76	72	78	74	71	68
3	89	78	70	63	87	77	69	63	74	67	62	71	65	60	68	64	59	57
4	82	69	60	53	79	68	59	53	65	58	52	63	57	51	61	55	51	48
5	75	62	52	46	73	61	52	45	58	51	45	56	50	44	54	49	44	42
6	69	55	46	40	67	54	46	39	53	45	39	51	44	39	49	43	38	36
7	64	50	41	35	62	49	41	35	48	40	35	46	39	34	45	39	34	32
8	59	46	37	31	58	45	37	31	44	36	31	42	36	31	41	35	30	28
9	56	42	34	28	54	41	33	28	40	33	28	39	32	27	38	32	27	25
10	52	39	31	25	51	38	30	25	37	30	25	36	30	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1498	1498	1498
5°	1503	1496	1497
10°	1502	1493	1495
15°	1499	1490	1491
20°	1496	1485	1488
25°	1495	1482	1484
30°	1498	1480	1478
35°	1495	1477	1470
40°	1499	1470	1468
45°	1502	1468	1468
50°	1505	1463	1465
55°	1506	1460	1462
60°	1495	1438	1456
65°	1481	1407	1439
70°	1445	1371	1344
75°	1383	1307	1111
80°	1276	1069	1113
85°	1065	1014	962



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.3	3.1
10°-20°	302.3	9.0
20°-30°	461.1	13.7
30°-40°	563.4	16.7
40°-50°	598.3	17.8
50°-60°	559.5	16.6
60°-70°	444.2	13.2
70°-80°	259.1	7.7
80°-90°	75.2	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°	868.7	25.8
0°-40°	1432.1	42.5
0°-60°	2589.9	76.9
0°-90°	3368.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3368.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1113	1113	1113	1113	1113	
5°	1113	1108	1107	1105	1108	106
15°	1076	1073	1070	1066	1071	304
25°	1007	1002	998	996	1000	465
35°	910	905	899	893	895	570
45°	789	782	771	768	771	609
55°	642	636	622	619	623	573
65°	465	454	442	446	452	459
75°	266	256	252	224	214	280
85°	69	66	66	65	62	80
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1113.0	1113.0	1113.0	1113.0	1113.0
2.5°	1116.3	1111.9	1110.8	1108.5	1111.9
5°	1113.0	1108.5	1107.4	1105.2	1108.5
7.5°	1107.4	1103.0	1100.8	1098.5	1101.9
10°	1099.6	1095.2	1093.0	1090.7	1094.1
12.5°	1089.6	1084.1	1081.8	1079.6	1082.9
15°	1076.3	1072.9	1069.6	1066.3	1070.7
17.5°	1061.8	1057.3	1055.1	1052.9	1056.2
20°	1045.1	1041.8	1037.3	1036.2	1039.5
22.5°	1028.4	1021.7	1019.5	1016.2	1020.6
25°	1007.3	1001.7	998.4	996.1	999.5
27.5°	986.1	980.5	976.1	973.9	977.2
30°	963.9	957.2	952.7	948.3	951.6
32.5°	938.3	931.6	926.0	921.6	923.8
35°	910.4	904.9	899.3	892.6	894.8
37.5°	882.6	877.0	869.3	863.7	865.9
40°	853.7	848.1	837.0	833.6	835.9
42.5°	822.5	815.8	804.7	801.4	803.6
45°	789.1	782.4	771.3	768.0	771.3
47.5°	755.7	747.9	735.7	733.5	737.9
50°	719.0	711.2	699.0	697.8	700.1
52.5°	681.2	672.2	662.2	658.9	662.2
55°	642.2	635.5	622.2	618.8	623.3
57.5°	601.0	591.0	579.9	576.5	581.0
60°	555.4	546.5	534.2	533.1	540.9
62.5°	514.2	502.0	489.7	488.6	497.5
65°	465.2	454.1	441.9	446.3	451.9
67.5°	415.1	406.2	395.1	398.5	404.0
70°	367.3	356.2	348.4	346.1	341.7
72.5°	317.2	308.3	303.8	286.0	280.5
75°	266.0	256.0	251.5	223.7	213.7
77.5°	212.6	208.1	197.0	169.2	165.8
80°	164.7	162.5	138.0	140.2	143.6
82.5°	114.6	113.5	105.7	103.5	102.4
85°	69.0	65.7	65.7	64.6	62.3
87.5°	27.8	30.1	28.9	27.8	28.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)