

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: P184409

Luminaire Tested: **612EN-LD2-34-UNV-L850-CD1-U**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P184409
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-L850-CD1-U
Description: METALUX ENCOUNTER 600X1200 TROFFER

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

Summary

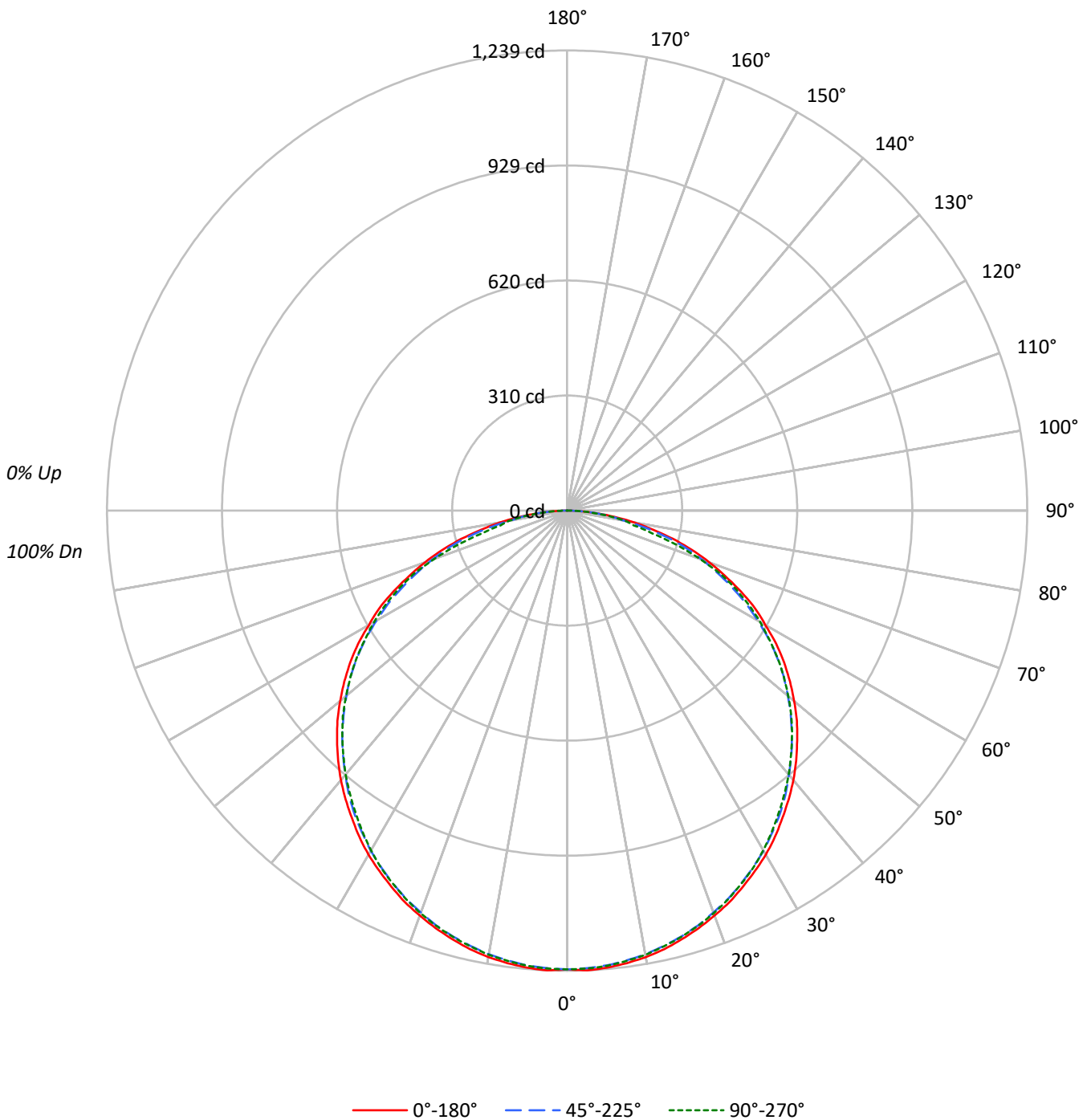
Lumens per Lamp: N/A
Luminaire Lumens: 3739.0 lumens
Efficiency: N/A
Efficacy: 130.3 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.27 / 1.4
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	1662	1662	1662
5°	1669	1660	1662
10°	1668	1658	1659
15°	1664	1654	1656
20°	1661	1649	1652
25°	1660	1645	1647
30°	1662	1643	1641
35°	1660	1640	1632
40°	1664	1632	1630
45°	1667	1629	1629
50°	1671	1624	1627
55°	1672	1620	1623
60°	1659	1596	1616
65°	1644	1562	1597
70°	1604	1521	1492
75°	1535	1451	1233
80°	1416	1187	1235
85°	1183	1125	1068



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.9	3.1
10°-20°	335.5	9.0
20°-30°	511.9	13.7
30°-40°	625.3	16.7
40°-50°	664.1	17.8
50°-60°	621.0	16.6
60°-70°	493.1	13.2
70°-80°	287.7	7.7
80°-90°	83.5	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°	964.3	25.8
0°-40°	1589.6	42.5
0°-60°	2874.8	76.9
0°-90°	3739.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3739.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1235	1235	1235	1235	1235	
5°	1235	1230	1229	1227	1230	117
15°	1195	1191	1187	1184	1188	337
25°	1118	1112	1108	1106	1109	516
35°	1011	1004	998	991	993	633
45°	876	868	856	852	856	676
55°	713	705	691	687	692	636
65°	516	504	490	495	502	510
75°	295	284	279	248	237	311
85°	77	73	73	72	69	89
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1235.4	1235.4	1235.4	1235.4	1235.4
2.5°	1239.1	1234.2	1233.0	1230.5	1234.2
5°	1235.4	1230.5	1229.2	1226.8	1230.5
7.5°	1229.2	1224.3	1221.8	1219.4	1223.1
10°	1220.6	1215.7	1213.2	1210.7	1214.4
12.5°	1209.5	1203.3	1200.8	1198.4	1202.1
15°	1194.7	1191.0	1187.2	1183.5	1188.5
17.5°	1178.6	1173.7	1171.2	1168.7	1172.4
20°	1160.1	1156.4	1151.4	1150.2	1153.9
22.5°	1141.5	1134.1	1131.7	1127.9	1132.9
25°	1118.1	1111.9	1108.2	1105.7	1109.4
27.5°	1094.6	1088.4	1083.5	1081.0	1084.7
30°	1069.9	1062.5	1057.5	1052.6	1056.3
32.5°	1041.5	1034.1	1027.9	1022.9	1025.4
35°	1010.6	1004.4	998.2	990.8	993.3
37.5°	979.7	973.5	964.9	958.7	961.2
40°	947.6	941.4	929.0	925.3	927.8
42.5°	913.0	905.6	893.2	889.5	892.0
45°	875.9	868.5	856.2	852.4	856.2
47.5°	838.9	830.2	816.6	814.1	819.1
50°	798.1	789.4	775.8	774.6	777.1
52.5°	756.1	746.2	735.1	731.4	735.1
55°	712.8	705.4	690.6	686.9	691.8
57.5°	667.1	656.0	643.7	640.0	644.9
60°	616.5	606.6	593.0	591.8	600.4
62.5°	570.8	557.2	543.6	542.4	552.2
65°	516.4	504.1	490.5	495.4	501.6
67.5°	460.8	450.9	438.6	442.3	448.5
70°	407.7	395.3	386.7	384.2	379.3
72.5°	352.1	342.2	337.3	317.5	311.3
75°	295.3	284.1	279.2	248.3	237.2
77.5°	236.0	231.0	218.7	187.8	184.1
80°	182.8	180.4	153.2	155.7	159.4
82.5°	127.2	126.0	117.4	114.9	113.7
85°	76.6	72.9	72.9	71.7	69.2
87.5°	30.9	33.4	32.1	30.9	32.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)