

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: P184412

Luminaire Tested: **612EN-LD2-40-UNV-L835-CD1-U**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P184412
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-LD2-40-UNV-L835-CD1-U
Description: METALUX ENCOUNTER 600X1200 TROFFER

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

Summary

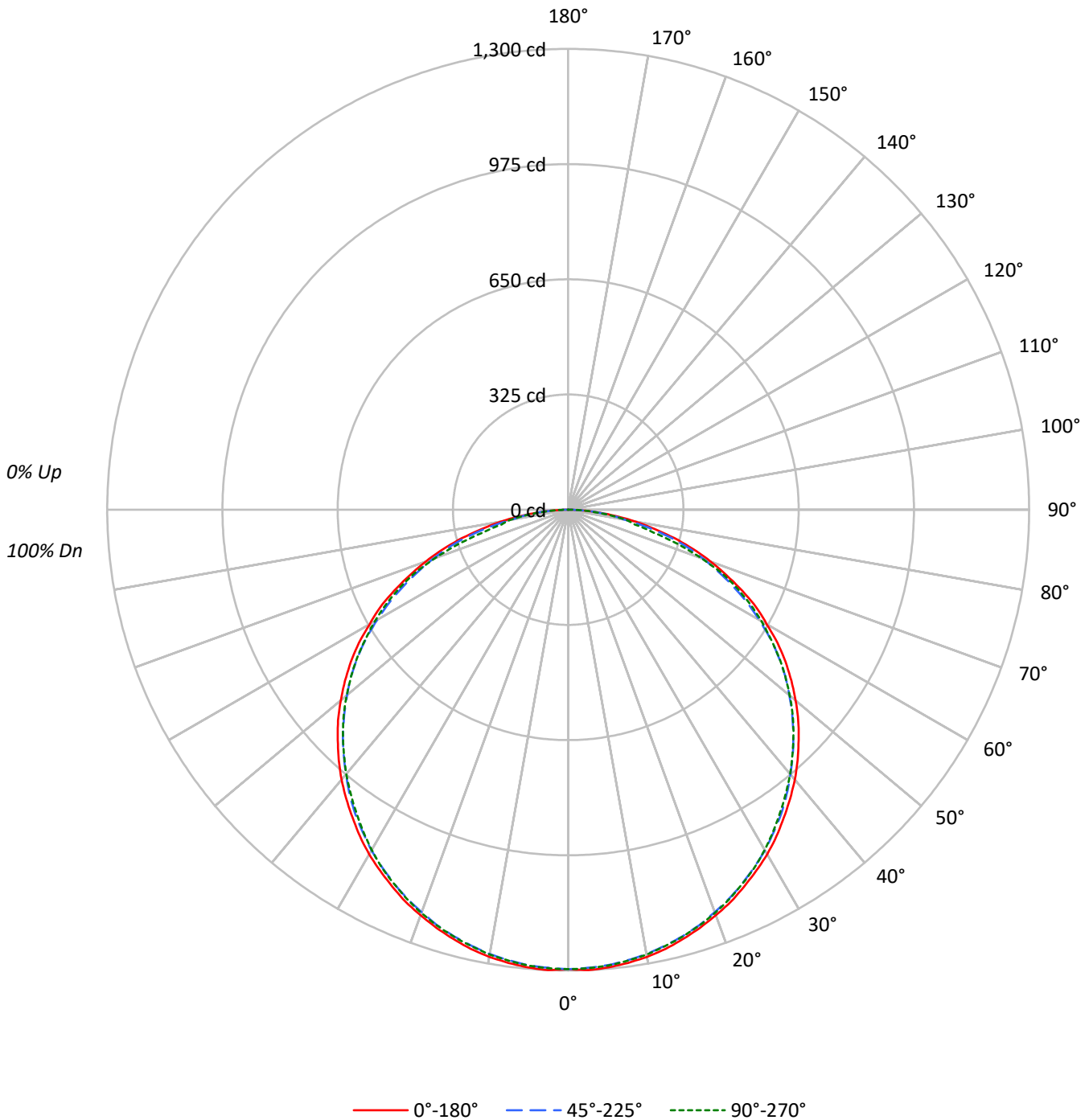
Lumens per Lamp: N/A
Luminaire Lumens: 3922.9 lumens
Efficiency: N/A
Efficacy: 115.7 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.27 / 1.4
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 33.9
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	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°	1744	1744	1744
5°	1751	1742	1744
10°	1750	1739	1741
15°	1746	1735	1737
20°	1743	1730	1734
25°	1742	1726	1728
30°	1744	1724	1722
35°	1742	1720	1712
40°	1746	1712	1710
45°	1749	1709	1709
50°	1753	1704	1707
55°	1754	1700	1703
60°	1741	1674	1695
65°	1725	1638	1676
70°	1683	1596	1565
75°	1611	1523	1294
80°	1486	1245	1296
85°	1241	1181	1121



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.6	3.1
10°-20°	352.0	9.0
20°-30°	537.1	13.7
30°-40°	656.1	16.7
40°-50°	696.8	17.8
50°-60°	651.6	16.6
60°-70°	517.4	13.2
70°-80°	301.8	7.7
80°-90°	87.6	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°	1011.7	25.8
0°-40°	1667.8	42.5
0°-60°	3016.2	76.9
0°-90°	3922.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3922.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1296	1296	1296	1296	1296	
5°	1296	1291	1290	1287	1291	123
15°	1253	1250	1246	1242	1247	354
25°	1173	1167	1163	1160	1164	541
35°	1060	1054	1047	1040	1042	664
45°	919	911	898	894	898	709
55°	748	740	725	721	726	668
65°	542	529	515	520	526	535
75°	310	298	293	260	249	326
85°	80	76	76	75	73	93
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1296.2	1296.2	1296.2	1296.2	1296.2
2.5°	1300.1	1294.9	1293.6	1291.0	1294.9
5°	1296.2	1291.0	1289.7	1287.1	1291.0
7.5°	1289.7	1284.6	1282.0	1279.4	1283.3
10°	1280.7	1275.5	1272.9	1270.3	1274.2
12.5°	1269.0	1262.5	1259.9	1257.3	1261.2
15°	1253.4	1249.6	1245.7	1241.8	1247.0
17.5°	1236.6	1231.4	1228.8	1226.2	1230.1
20°	1217.2	1213.3	1208.1	1206.8	1210.7
22.5°	1197.7	1189.9	1187.3	1183.4	1188.6
25°	1173.1	1166.6	1162.7	1160.1	1164.0
27.5°	1148.5	1142.0	1136.8	1134.2	1138.1
30°	1122.5	1114.7	1109.6	1104.4	1108.3
32.5°	1092.7	1084.9	1078.5	1073.3	1075.9
35°	1060.3	1053.8	1047.3	1039.6	1042.2
37.5°	1027.9	1021.4	1012.3	1005.9	1008.5
40°	994.2	987.7	974.8	970.9	973.5
42.5°	957.9	950.1	937.2	933.3	935.9
45°	919.0	911.2	898.3	894.4	898.3
47.5°	880.1	871.1	856.8	854.2	859.4
50°	837.4	828.3	814.0	812.7	815.3
52.5°	793.3	782.9	771.3	767.4	771.3
55°	747.9	740.1	724.6	720.7	725.9
57.5°	700.0	688.3	675.3	671.4	676.6
60°	646.8	636.4	622.2	620.9	630.0
62.5°	598.9	584.6	570.3	569.0	579.4
65°	541.8	528.9	514.6	519.8	526.3
67.5°	483.5	473.1	460.2	464.0	470.5
70°	427.8	414.8	405.7	403.1	397.9
72.5°	369.4	359.1	353.9	333.1	326.6
75°	309.8	298.1	292.9	260.5	248.9
77.5°	247.6	242.4	229.4	197.0	193.1
80°	191.8	189.2	160.7	163.3	167.2
82.5°	133.5	132.2	123.1	120.5	119.3
85°	80.4	76.5	76.5	75.2	72.6
87.5°	32.4	35.0	33.7	32.4	33.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)