

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: P184432

Luminaire Tested: **612EN-LD2-58-UNV-L835-CD1-U**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P184432
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-LD2-58-UNV-L835-CD1-U
Description: METALUX ENCOUNTER 600X1200 TROFFER

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

Summary

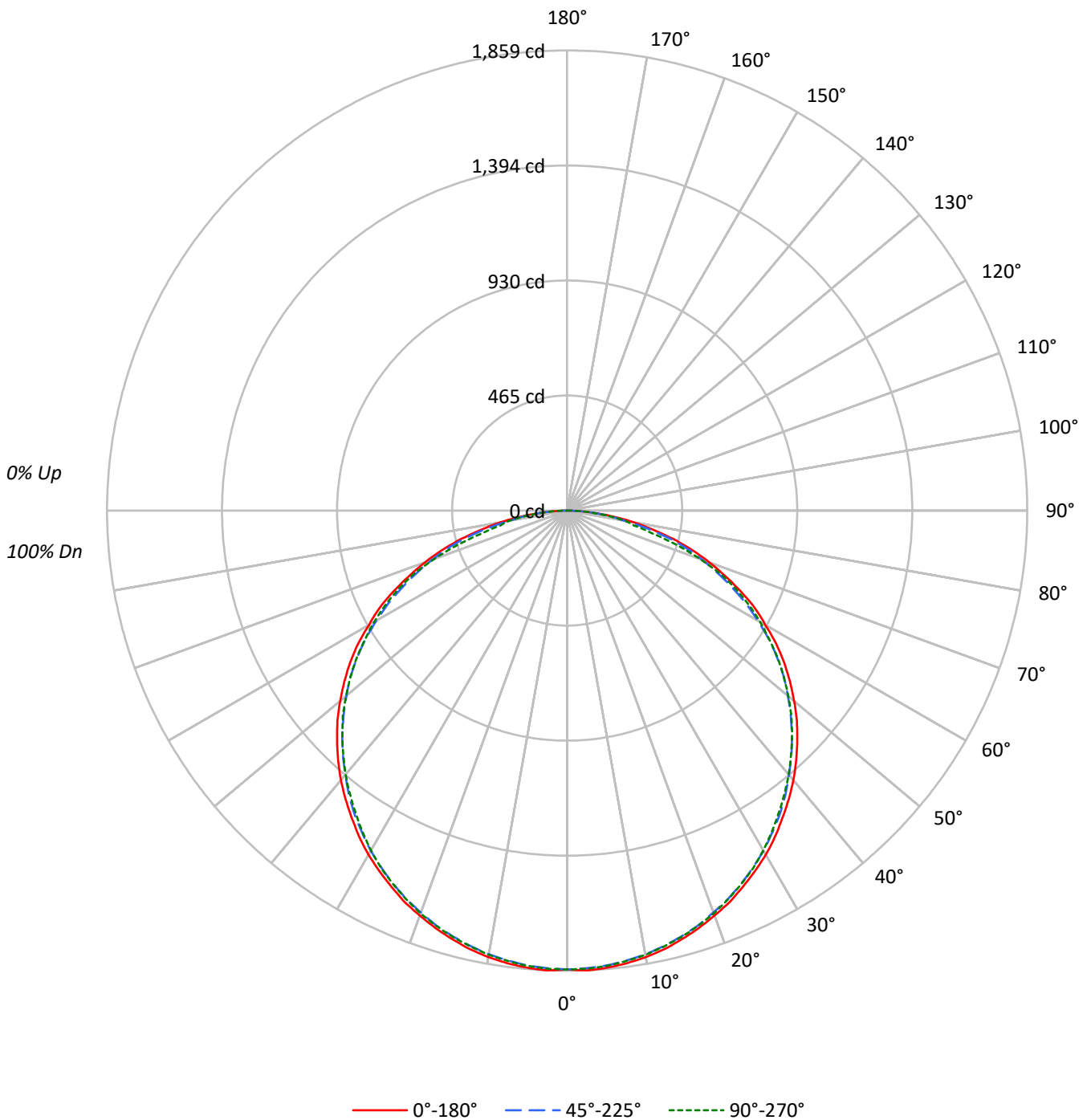
Lumens per Lamp: N/A
Luminaire Lumens: 5610.5 lumens
Efficiency: N/A
Efficacy: 119.4 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.27 / 1.4
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 47
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°	2494	2494	2494
5°	2504	2491	2494
10°	2502	2487	2490
15°	2497	2482	2484
20°	2492	2474	2479
25°	2491	2469	2471
30°	2494	2465	2463
35°	2491	2460	2448
40°	2497	2449	2445
45°	2501	2445	2445
50°	2507	2437	2441
55°	2509	2431	2435
60°	2489	2394	2425
65°	2467	2343	2396
70°	2407	2282	2239
75°	2303	2178	1850
80°	2126	1781	1853
85°	1774	1689	1602



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	175.4	3.1
10°-20°	503.5	9.0
20°-30°	768.1	13.7
30°-40°	938.3	16.7
40°-50°	996.6	17.8
50°-60°	931.9	16.6
60°-70°	739.9	13.2
70°-80°	431.6	7.7
80°-90°	125.2	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°	1446.9	25.8
0°-40°	2385.3	42.5
0°-60°	4313.7	76.9
0°-90°	5610.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5610.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1854	1854	1854	1854	1854	
5°	1854	1846	1845	1841	1846	176
15°	1793	1787	1782	1776	1783	506
25°	1678	1668	1663	1659	1665	774
35°	1516	1507	1498	1487	1490	950
45°	1314	1303	1285	1279	1285	1015
55°	1070	1058	1036	1031	1038	955
65°	775	756	736	743	753	765
75°	443	426	419	373	356	466
85°	115	109	109	108	104	133
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1853.8	1853.8	1853.8	1853.8	1853.8
2.5°	1859.4	1852.0	1850.1	1846.4	1852.0
5°	1853.8	1846.4	1844.6	1840.9	1846.4
7.5°	1844.6	1837.1	1833.4	1829.7	1835.3
10°	1831.6	1824.2	1820.5	1816.8	1822.3
12.5°	1814.9	1805.6	1801.9	1798.2	1803.8
15°	1792.7	1787.1	1781.5	1776.0	1783.4
17.5°	1768.6	1761.1	1757.4	1753.7	1759.3
20°	1740.7	1735.2	1727.8	1725.9	1731.5
22.5°	1712.9	1701.8	1698.1	1692.5	1700.0
25°	1677.7	1668.4	1662.9	1659.2	1664.7
27.5°	1642.5	1633.2	1625.8	1622.1	1627.7
30°	1605.4	1594.3	1586.9	1579.5	1585.0
32.5°	1562.8	1551.7	1542.4	1535.0	1538.7
35°	1516.4	1507.2	1497.9	1486.8	1490.5
37.5°	1470.1	1460.8	1447.8	1438.6	1442.3
40°	1421.9	1412.6	1394.1	1388.5	1392.2
42.5°	1370.0	1358.9	1340.3	1334.8	1338.5
45°	1314.4	1303.2	1284.7	1279.1	1284.7
47.5°	1258.8	1245.8	1225.4	1221.7	1229.1
50°	1197.6	1184.6	1164.2	1162.4	1166.1
52.5°	1134.5	1119.7	1103.0	1097.5	1103.0
55°	1069.7	1058.5	1036.3	1030.7	1038.1
57.5°	1001.1	984.4	965.8	960.3	967.7
60°	925.1	910.2	889.8	888.0	901.0
62.5°	856.5	836.1	815.7	813.8	828.7
65°	774.9	756.4	736.0	743.4	752.7
67.5°	691.5	676.6	658.1	663.7	672.9
70°	611.8	593.2	580.2	576.5	569.1
72.5°	528.3	513.5	506.1	476.4	467.2
75°	443.1	426.4	419.0	372.6	355.9
77.5°	354.1	346.7	328.1	281.8	276.2
80°	274.4	270.7	229.9	233.6	239.1
82.5°	190.9	189.1	176.1	172.4	170.6
85°	114.9	109.4	109.4	107.5	103.8
87.5°	46.3	50.1	48.2	46.3	48.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)