

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: P184424

Luminaire Tested: **612EN-LD2-49-UNV-L850-CD1-U**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P184424
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-LD2-49-UNV-L850-CD1-U
Description: METALUX ENCOUNTER 600X1200 TROFFER

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

Summary

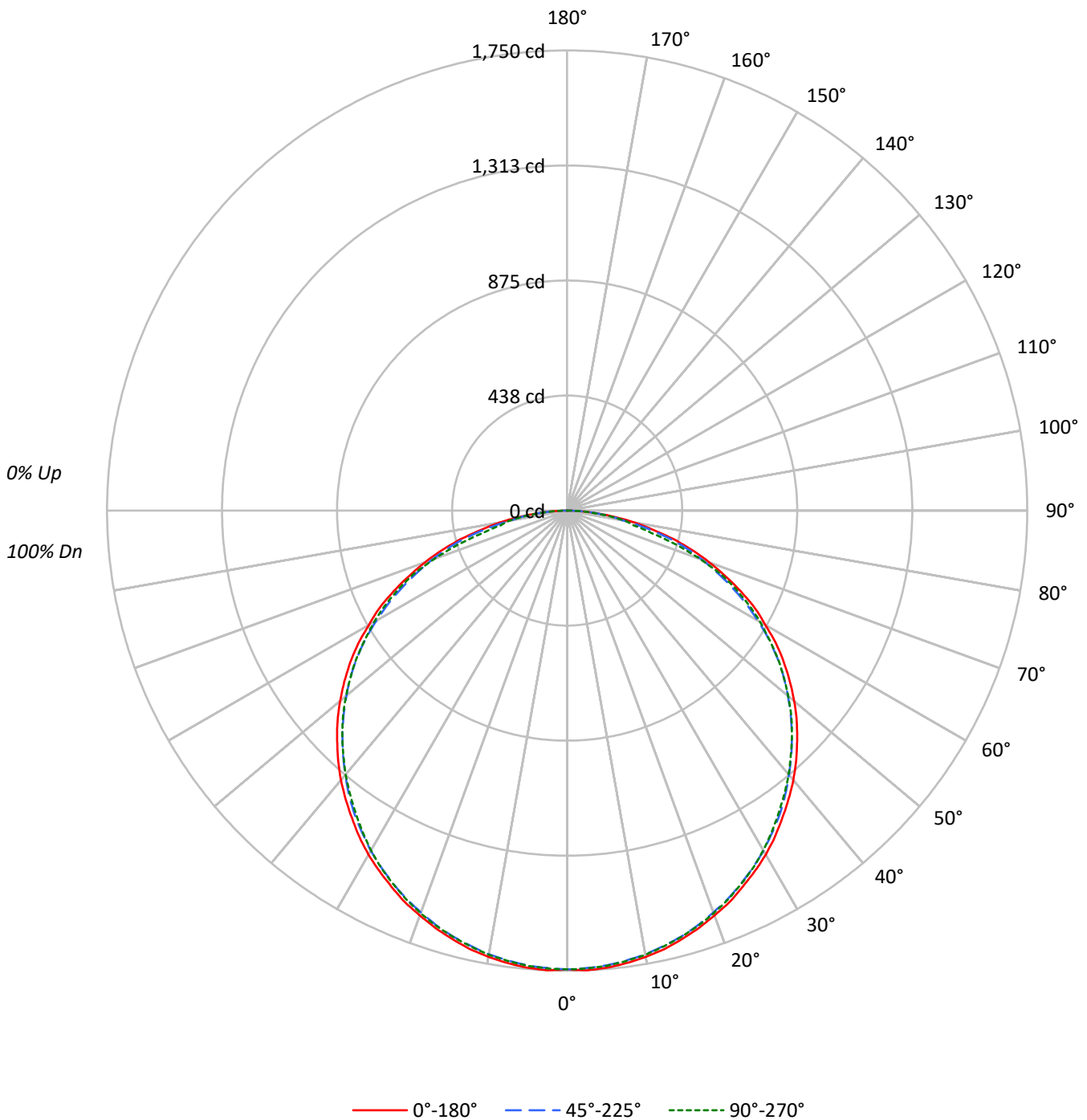
Lumens per Lamp: N/A
Luminaire Lumens: 5280.4 lumens
Efficiency: N/A
Efficacy: 125.1 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.27 / 1.4
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 42.2
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°	2348	2348	2348
5°	2357	2345	2347
10°	2355	2341	2343
15°	2350	2336	2338
20°	2346	2328	2333
25°	2344	2323	2326
30°	2348	2320	2318
35°	2344	2316	2304
40°	2350	2305	2301
45°	2354	2301	2301
50°	2359	2294	2297
55°	2362	2288	2292
60°	2343	2254	2282
65°	2322	2205	2255
70°	2265	2148	2107
75°	2168	2050	1742
80°	2001	1676	1744
85°	1670	1589	1508



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.1	3.1
10°-20°	473.8	9.0
20°-30°	722.9	13.7
30°-40°	883.1	16.7
40°-50°	938.0	17.8
50°-60°	877.0	16.6
60°-70°	696.4	13.2
70°-80°	406.2	7.7
80°-90°	117.9	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°	1361.8	25.8
0°-40°	2244.9	42.5
0°-60°	4059.9	76.9
0°-90°	5280.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5280.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1745	1745	1745	1745	1745	
5°	1745	1738	1736	1732	1738	166
15°	1687	1682	1677	1672	1678	476
25°	1579	1570	1565	1562	1567	729
35°	1427	1418	1410	1399	1403	894
45°	1237	1227	1209	1204	1209	955
55°	1007	996	975	970	977	898
65°	729	712	693	700	708	720
75°	417	401	394	351	335	439
85°	108	103	103	101	98	125
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1744.8	1744.8	1744.8	1744.8	1744.8
2.5°	1750.0	1743.0	1741.3	1737.8	1743.0
5°	1744.8	1737.8	1736.0	1732.5	1737.8
7.5°	1736.0	1729.1	1725.6	1722.1	1727.3
10°	1723.8	1716.8	1713.3	1709.9	1715.1
12.5°	1708.1	1699.4	1695.9	1692.4	1697.6
15°	1687.2	1681.9	1676.7	1671.5	1678.5
17.5°	1664.5	1657.5	1654.0	1650.5	1655.8
20°	1638.3	1633.1	1626.1	1624.4	1629.6
22.5°	1612.2	1601.7	1598.2	1593.0	1599.9
25°	1579.0	1570.3	1565.0	1561.6	1566.8
27.5°	1545.9	1537.1	1530.1	1526.7	1531.9
30°	1511.0	1500.5	1493.5	1486.5	1491.8
32.5°	1470.8	1460.4	1451.6	1444.7	1448.1
35°	1427.2	1418.5	1409.8	1399.3	1402.8
37.5°	1383.6	1374.9	1362.7	1353.9	1357.4
40°	1338.2	1329.5	1312.1	1306.8	1310.3
42.5°	1289.4	1278.9	1261.5	1256.2	1259.7
45°	1237.0	1226.6	1209.1	1203.9	1209.1
47.5°	1184.7	1172.5	1153.3	1149.8	1156.8
50°	1127.1	1114.9	1095.7	1094.0	1097.4
52.5°	1067.8	1053.8	1038.1	1032.9	1038.1
55°	1006.7	996.3	975.3	970.1	977.1
57.5°	942.2	926.5	909.0	903.8	910.8
60°	870.6	856.7	837.5	835.7	848.0
62.5°	806.1	786.9	767.7	765.9	779.9
65°	729.3	711.9	692.7	699.6	708.4
67.5°	650.8	636.8	619.4	624.6	633.3
70°	575.8	558.3	546.1	542.6	535.6
72.5°	497.3	483.3	476.3	448.4	439.7
75°	417.0	401.3	394.3	350.7	335.0
77.5°	333.2	326.3	308.8	265.2	260.0
80°	258.2	254.7	216.3	219.8	225.1
82.5°	179.7	178.0	165.8	162.3	160.5
85°	108.2	102.9	102.9	101.2	97.7
87.5°	43.6	47.1	45.4	43.6	45.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)