

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: P184433

Luminaire Tested: **612EN-LD2-58-UNV-L840-CD1-U**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P184433
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-L840-CD1-U
Description: METALUX ENCOUNTER 600X1200 TROFFER

Light Source: EATON LED 4000K
Ballast/Driver: OSRAM ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5722.8 lumens
Efficiency: N/A
Efficacy: 121.8 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

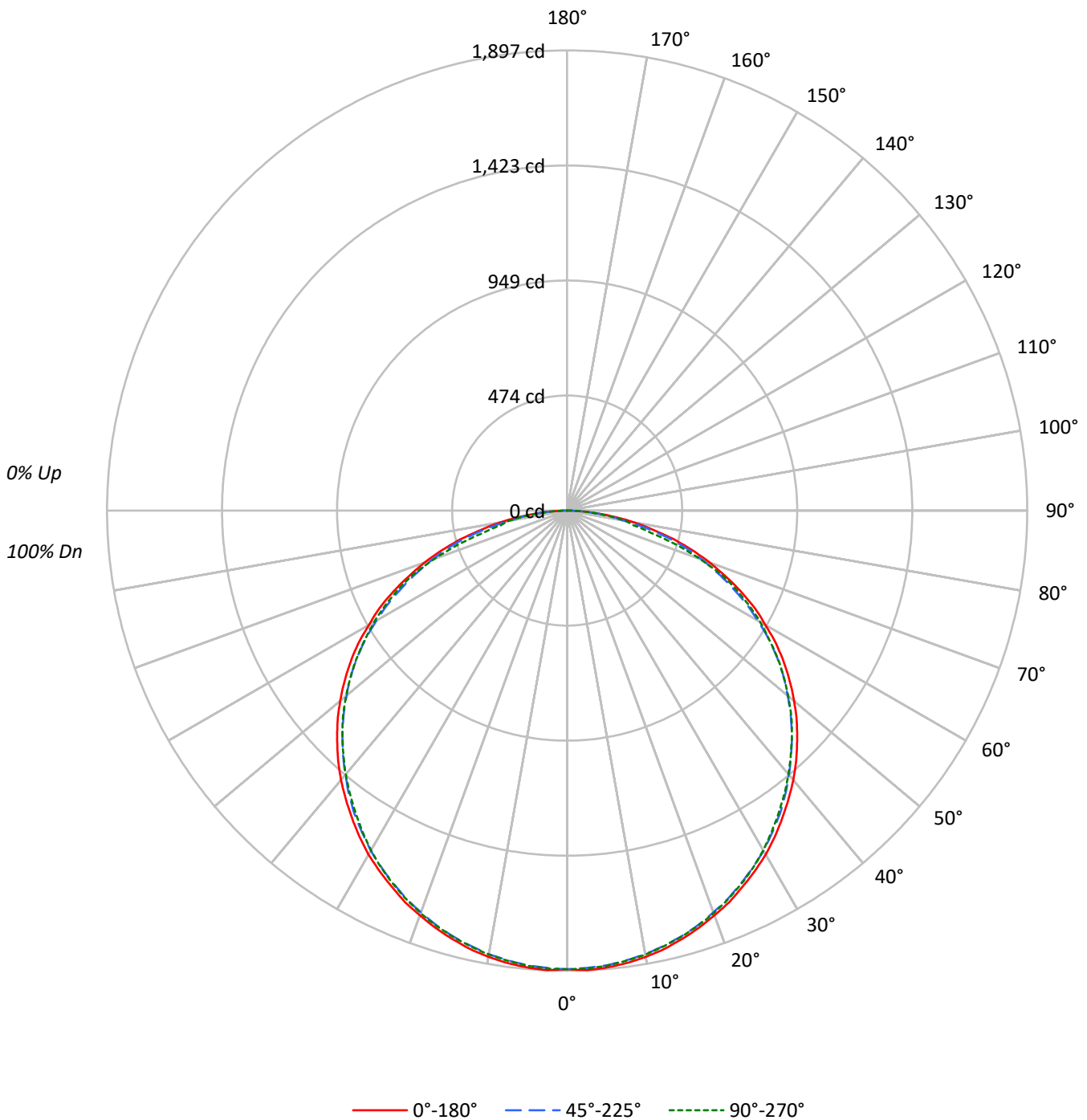
Input Watts (W): 47
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2544	2544	2544
5°	2554	2541	2544
10°	2552	2537	2540
15°	2547	2531	2534
20°	2542	2523	2529
25°	2541	2518	2521
30°	2544	2515	2512
35°	2541	2510	2497
40°	2547	2498	2494
45°	2551	2493	2493
50°	2557	2486	2490
55°	2559	2479	2484
60°	2539	2442	2473
65°	2516	2390	2444
70°	2455	2329	2284
75°	2349	2221	1888
80°	2169	1817	1890
85°	1809	1723	1635



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	178.9	3.1
10°-20°	513.5	9.0
20°-30°	783.5	13.7
30°-40°	957.1	16.7
40°-50°	1016.5	17.8
50°-60°	950.5	16.6
60°-70°	754.7	13.2
70°-80°	440.3	7.7
80°-90°	127.8	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°	1475.9	25.8
0°-40°	2433.0	42.5
0°-60°	4400.0	76.9
0°-90°	5722.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5722.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1891	1891	1891	1891	1891	
5°	1891	1883	1882	1878	1883	180
15°	1828	1823	1817	1812	1819	516
25°	1711	1702	1696	1692	1698	790
35°	1547	1537	1528	1516	1520	969
45°	1341	1329	1310	1305	1310	1035
55°	1091	1080	1057	1051	1059	974
65°	790	772	751	758	768	780
75°	452	435	427	380	363	476
85°	117	112	112	110	106	136
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1890.9	1890.9	1890.9	1890.9	1890.9
2.5°	1896.6	1889.0	1887.1	1883.3	1889.0
5°	1890.9	1883.3	1881.5	1877.7	1883.3
7.5°	1881.5	1873.9	1870.1	1866.3	1872.0
10°	1868.2	1860.7	1856.9	1853.1	1858.8
12.5°	1851.2	1841.7	1838.0	1834.2	1839.9
15°	1828.5	1822.8	1817.2	1811.5	1819.1
17.5°	1803.9	1796.4	1792.6	1788.8	1794.5
20°	1775.6	1769.9	1762.3	1760.4	1766.1
22.5°	1747.2	1735.9	1732.1	1726.4	1734.0
25°	1711.3	1701.8	1696.1	1692.4	1698.0
27.5°	1675.3	1665.9	1658.3	1654.5	1660.2
30°	1637.5	1626.2	1618.6	1611.1	1616.7
32.5°	1594.0	1582.7	1573.2	1565.7	1569.5
35°	1546.8	1537.3	1527.9	1516.5	1520.3
37.5°	1499.5	1490.0	1476.8	1467.3	1471.1
40°	1450.3	1440.9	1422.0	1416.3	1420.1
42.5°	1397.4	1386.0	1367.1	1361.5	1365.2
45°	1340.7	1329.3	1310.4	1304.7	1310.4
47.5°	1283.9	1270.7	1249.9	1246.1	1253.7
50°	1221.5	1208.3	1187.5	1185.6	1189.4
52.5°	1157.2	1142.1	1125.1	1119.4	1125.1
55°	1091.1	1079.7	1057.0	1051.3	1058.9
57.5°	1021.1	1004.1	985.2	979.5	987.1
60°	943.6	928.4	907.6	905.7	919.0
62.5°	873.6	852.8	832.0	830.1	845.2
65°	790.4	771.5	750.7	758.3	767.7
67.5°	705.3	690.2	671.3	676.9	686.4
70°	624.0	605.1	591.9	588.1	580.5
72.5°	538.9	523.8	516.2	486.0	476.5
75°	451.9	434.9	427.3	380.1	363.1
77.5°	361.2	353.6	334.7	287.4	281.7
80°	279.9	276.1	234.5	238.3	243.9
82.5°	194.8	192.9	179.6	175.9	174.0
85°	117.2	111.6	111.6	109.7	105.9
87.5°	47.3	51.1	49.2	47.3	49.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)