

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: P184434

Luminaire Tested: **612EN-LD2-58-UNV-L850-CD1-U**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P184434
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-L850-CD1-U
Description: METALUX ENCOUNTER 600X1200 TROFFER

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

Summary

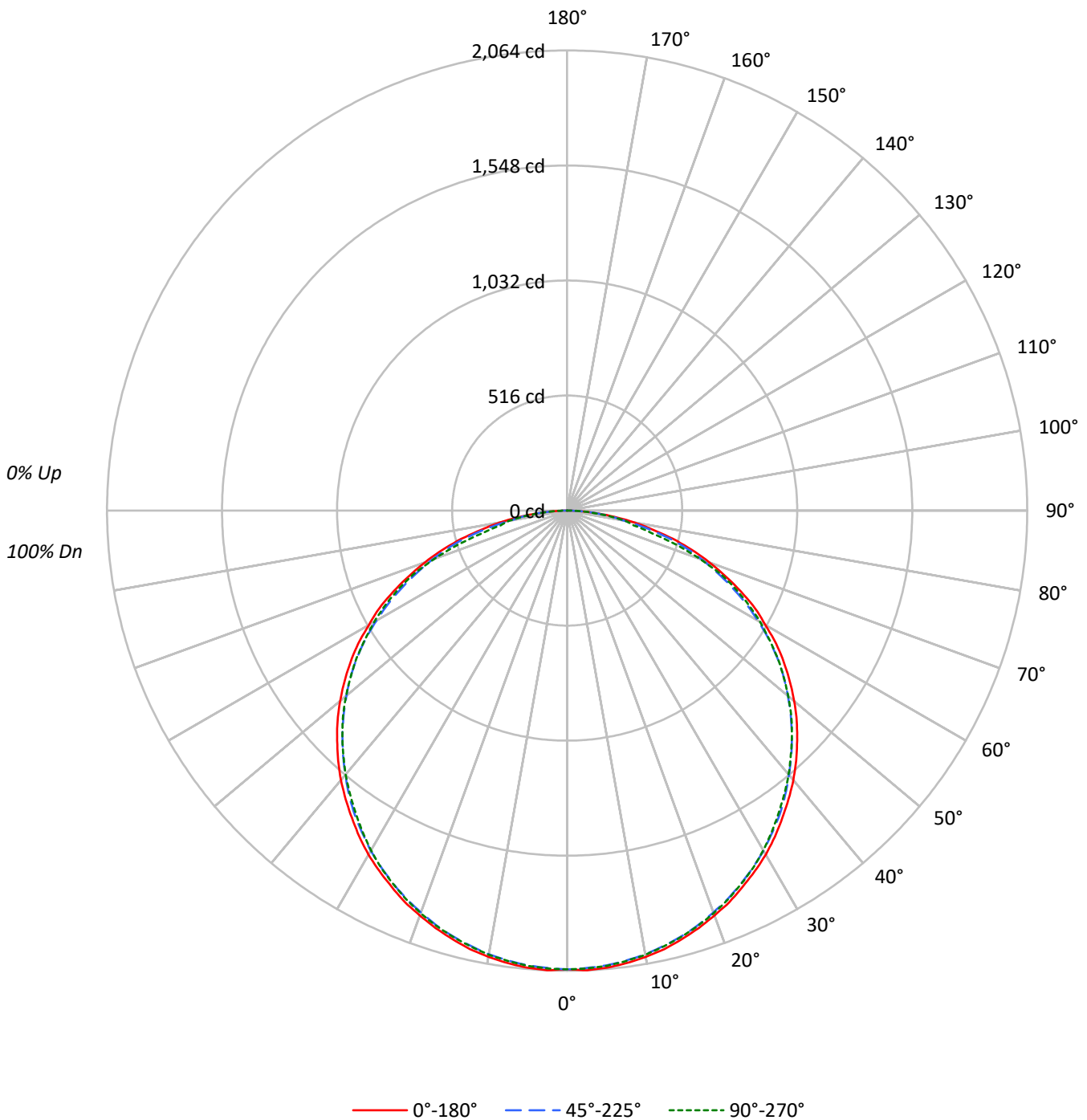
Lumens per Lamp: N/A
Luminaire Lumens: 6227.7 lumens
Efficiency: N/A
Efficacy: 132.5 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.27 / 1.4
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	2769	2769	2769
5°	2779	2765	2768
10°	2778	2761	2764
15°	2772	2755	2757
20°	2767	2746	2752
25°	2765	2740	2743
30°	2769	2737	2733
35°	2765	2731	2717
40°	2772	2718	2714
45°	2776	2713	2713
50°	2783	2705	2709
55°	2785	2698	2703
60°	2763	2658	2691
65°	2738	2601	2660
70°	2672	2534	2485
75°	2557	2418	2054
80°	2359	1977	2056
85°	1970	1874	1778



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	194.7	3.1
10°-20°	558.8	9.0
20°-30°	852.6	13.7
30°-40°	1041.5	16.7
40°-50°	1106.2	17.8
50°-60°	1034.4	16.6
60°-70°	821.3	13.2
70°-80°	479.1	7.7
80°-90°	139.0	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°	1606.1	25.8
0°-40°	2647.6	42.5
0°-60°	4788.2	76.9
0°-90°	6227.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6227.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2058	2058	2058	2058	2058	
5°	2058	2050	2048	2043	2050	196
15°	1990	1984	1978	1971	1980	562
25°	1862	1852	1846	1842	1848	859
35°	1683	1673	1663	1650	1654	1054
45°	1459	1447	1426	1420	1426	1126
55°	1187	1175	1150	1144	1152	1060
65°	860	840	817	825	835	849
75°	492	473	465	414	395	518
85°	128	121	121	119	115	148
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2057.8	2057.8	2057.8	2057.8	2057.8
2.5°	2063.9	2055.7	2053.6	2049.5	2055.7
5°	2057.8	2049.5	2047.5	2043.3	2049.5
7.5°	2047.5	2039.2	2035.1	2031.0	2037.2
10°	2033.1	2024.8	2020.7	2016.6	2022.8
12.5°	2014.5	2004.2	2000.1	1996.0	2002.2
15°	1989.8	1983.7	1977.5	1971.3	1979.6
17.5°	1963.1	1954.9	1950.7	1946.6	1952.8
20°	1932.2	1926.1	1917.8	1915.8	1921.9
22.5°	1901.4	1889.0	1884.9	1878.7	1887.0
25°	1862.3	1852.0	1845.8	1841.7	1847.9
27.5°	1823.2	1812.9	1804.6	1800.5	1806.7
30°	1782.0	1769.7	1761.4	1753.2	1759.4
32.5°	1734.7	1722.3	1712.0	1703.8	1707.9
35°	1683.2	1673.0	1662.7	1650.3	1654.4
37.5°	1631.8	1621.5	1607.1	1596.8	1600.9
40°	1578.3	1568.0	1547.4	1541.3	1545.4
42.5°	1520.7	1508.3	1487.8	1481.6	1485.7
45°	1458.9	1446.6	1426.0	1419.8	1426.0
47.5°	1397.2	1382.8	1360.2	1356.1	1364.3
50°	1329.3	1314.9	1292.3	1290.2	1294.3
52.5°	1259.3	1242.9	1224.4	1218.2	1224.4
55°	1187.3	1175.0	1150.3	1144.1	1152.3
57.5°	1111.2	1092.7	1072.1	1065.9	1074.1
60°	1026.8	1010.4	987.7	985.7	1000.1
62.5°	950.7	928.0	905.4	903.4	919.8
65°	860.1	839.6	816.9	825.2	835.4
67.5°	767.5	751.1	730.5	736.7	747.0
70°	679.1	658.5	644.1	640.0	631.7
72.5°	586.5	570.0	561.8	528.8	518.6
75°	491.8	473.3	465.1	413.6	395.1
77.5°	393.0	384.8	364.2	312.8	306.6
80°	304.5	300.4	255.2	259.3	265.4
82.5°	211.9	209.9	195.5	191.4	189.3
85°	127.6	121.4	121.4	119.3	115.2
87.5°	51.4	55.6	53.5	51.4	53.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)