

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: P184438

Luminaire Tested: **612EN-LD2-67-UNV-L840-CD1-U**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P184438
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-LD2-67-UNV-L840-CD1-U
Description: METALUX ENCOUNTER 600X1200 TROFFER

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

Summary

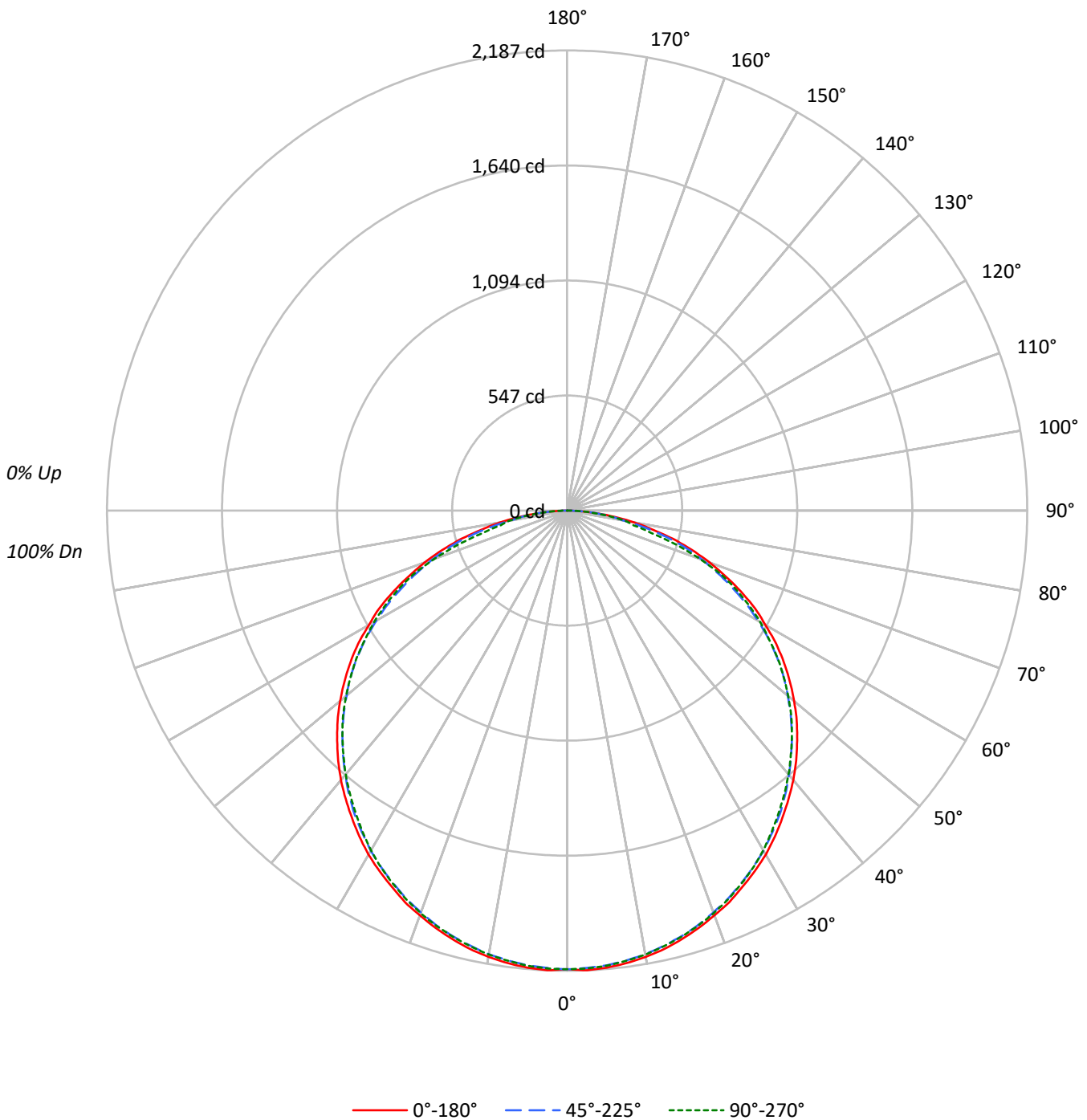
Lumens per Lamp: N/A
Luminaire Lumens: 6598.1 lumens
Efficiency: N/A
Efficacy: 117.6 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.27 / 1.4
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 56.1
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°	2933	2933	2933
5°	2945	2930	2933
10°	2943	2925	2928
15°	2937	2918	2921
20°	2931	2909	2916
25°	2929	2903	2907
30°	2933	2899	2896
35°	2929	2893	2879
40°	2937	2880	2876
45°	2941	2875	2875
50°	2948	2866	2870
55°	2951	2859	2864
60°	2928	2816	2851
65°	2901	2755	2818
70°	2830	2685	2633
75°	2709	2561	2176
80°	2500	2094	2179
85°	2087	1985	1885



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	206.3	3.1
10°-20°	592.1	9.0
20°-30°	903.3	13.7
30°-40°	1103.5	16.7
40°-50°	1172.0	17.8
50°-60°	1095.9	16.6
60°-70°	870.2	13.2
70°-80°	507.6	7.7
80°-90°	147.3	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°	1701.6	25.8
0°-40°	2805.1	42.5
0°-60°	5073.0	76.9
0°-90°	6598.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6598.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2180	2180	2180	2180	2180	
5°	2180	2171	2169	2165	2171	207
15°	2108	2102	2095	2089	2097	595
25°	1973	1962	1956	1951	1958	910
35°	1783	1772	1762	1748	1753	1117
45°	1546	1533	1511	1504	1511	1193
55°	1258	1245	1219	1212	1221	1123
65°	911	890	866	874	885	900
75°	521	501	493	438	419	549
85°	135	129	129	126	122	157
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2180.1	2180.1	2180.1	2180.1	2180.1
2.5°	2186.7	2178.0	2175.8	2171.4	2178.0
5°	2180.1	2171.4	2169.2	2164.9	2171.4
7.5°	2169.2	2160.5	2156.2	2151.8	2158.3
10°	2154.0	2145.3	2140.9	2136.5	2143.1
12.5°	2134.4	2123.5	2119.1	2114.7	2121.3
15°	2108.2	2101.7	2095.1	2088.6	2097.3
17.5°	2079.9	2071.1	2066.8	2062.4	2069.0
20°	2047.2	2040.6	2031.9	2029.7	2036.3
22.5°	2014.5	2001.4	1997.0	1990.5	1999.2
25°	1973.0	1962.1	1955.6	1951.2	1957.8
27.5°	1931.6	1920.7	1912.0	1907.6	1914.2
30°	1888.0	1874.9	1866.2	1857.5	1864.0
32.5°	1837.9	1824.8	1813.9	1805.2	1809.5
35°	1783.4	1772.5	1761.6	1748.5	1752.8
37.5°	1728.9	1718.0	1702.7	1691.8	1696.2
40°	1672.2	1661.3	1639.5	1632.9	1637.3
42.5°	1611.1	1598.0	1576.2	1569.7	1574.1
45°	1545.7	1532.6	1510.8	1504.3	1510.8
47.5°	1480.3	1465.1	1441.1	1436.7	1445.4
50°	1408.4	1393.1	1369.1	1367.0	1371.3
52.5°	1334.2	1316.8	1297.2	1290.6	1297.2
55°	1257.9	1244.9	1218.7	1212.2	1220.9
57.5°	1177.3	1157.7	1135.9	1129.3	1138.0
60°	1087.9	1070.5	1046.5	1044.3	1059.6
62.5°	1007.2	983.2	959.3	957.1	974.5
65°	911.3	889.5	865.5	874.2	885.1
67.5°	813.2	795.8	774.0	780.5	791.4
70°	719.4	697.6	682.4	678.0	669.3
72.5°	621.3	603.9	595.2	560.3	549.4
75°	521.1	501.4	492.7	438.2	418.6
77.5°	416.4	407.7	385.9	331.4	324.8
80°	322.7	318.3	270.3	274.7	281.2
82.5°	224.6	222.4	207.1	202.8	200.6
85°	135.2	128.6	128.6	126.4	122.1
87.5°	54.5	58.9	56.7	54.5	56.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)