

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: P184441

Luminaire Tested: **612EN-LD2-70-UNV-L830-CD1-U**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P184441
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-LD2-70-UNV-L830-CD1-U
Description: METALUX ENCOUNTER 600X1200 TROFFER

Light Source: EATON LED 3000K
Ballast/Driver: OSRAM ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6546.8 lumens
Efficiency: N/A
Efficacy: 108.8 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

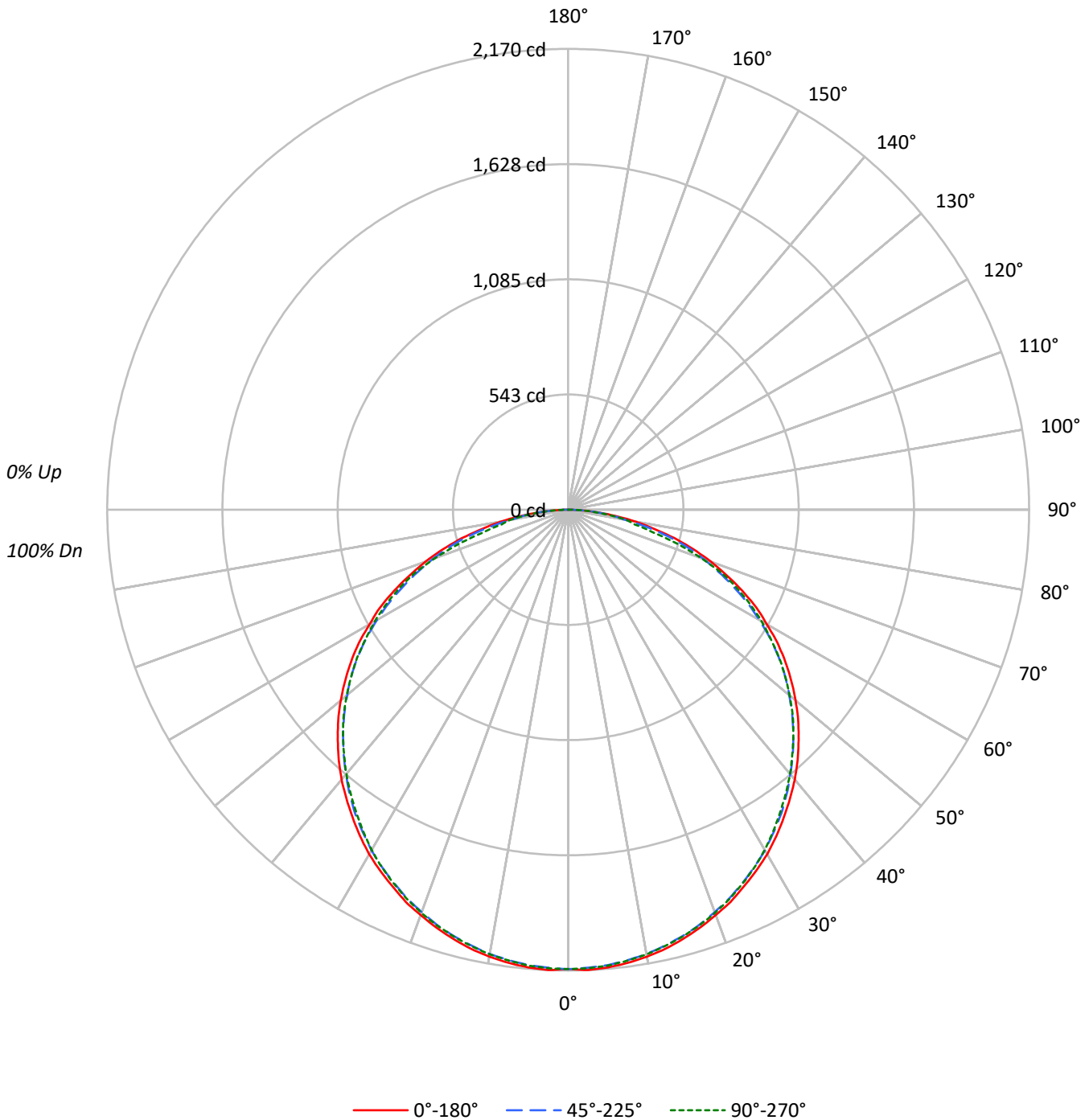
Input Watts (W): 60.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2911	2911	2911
5°	2922	2907	2910
10°	2920	2902	2905
15°	2914	2896	2899
20°	2908	2887	2893
25°	2906	2881	2884
30°	2910	2877	2874
35°	2906	2871	2857
40°	2914	2857	2853
45°	2918	2853	2853
50°	2925	2844	2848
55°	2928	2837	2842
60°	2905	2794	2829
65°	2879	2734	2796
70°	2808	2664	2613
75°	2688	2542	2159
80°	2481	2078	2163
85°	2070	1970	1870



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	204.7	3.1
10°-20°	587.5	9.0
20°-30°	896.3	13.7
30°-40°	1094.9	16.7
40°-50°	1162.9	17.8
50°-60°	1087.4	16.6
60°-70°	863.4	13.2
70°-80°	503.7	7.7
80°-90°	146.1	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°	1688.4	25.8
0°-40°	2783.3	42.5
0°-60°	5033.6	76.9
0°-90°	6546.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6546.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2163	2163	2163	2163	2163	
5°	2163	2155	2152	2148	2155	206
15°	2092	2085	2079	2072	2081	591
25°	1958	1947	1940	1936	1943	903
35°	1770	1759	1748	1735	1739	1108
45°	1534	1521	1499	1493	1499	1184
55°	1248	1235	1209	1203	1211	1114
65°	904	883	859	868	878	893
75°	517	498	489	435	415	544
85°	134	128	128	126	121	155
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2163.2	2163.2	2163.2	2163.2	2163.2
2.5°	2169.7	2161.1	2158.9	2154.6	2161.1
5°	2163.2	2154.6	2152.4	2148.1	2154.6
7.5°	2152.4	2143.7	2139.4	2135.1	2141.6
10°	2137.3	2128.6	2124.3	2120.0	2126.4
12.5°	2117.8	2107.0	2102.6	2098.3	2104.8
15°	2091.8	2085.3	2078.9	2072.4	2081.0
17.5°	2063.7	2055.1	2050.7	2046.4	2052.9
20°	2031.3	2024.8	2016.1	2014.0	2020.4
22.5°	1998.8	1985.8	1981.5	1975.0	1983.7
25°	1957.7	1946.9	1940.4	1936.1	1942.6
27.5°	1916.6	1905.8	1897.1	1892.8	1899.3
30°	1873.3	1860.4	1851.7	1843.1	1849.6
32.5°	1823.6	1810.6	1799.8	1791.1	1795.5
35°	1769.5	1758.7	1747.9	1734.9	1739.2
37.5°	1715.4	1704.6	1689.5	1678.7	1683.0
40°	1659.2	1648.4	1626.7	1620.2	1624.6
42.5°	1598.6	1585.6	1564.0	1557.5	1561.8
45°	1533.7	1520.7	1499.1	1492.6	1499.1
47.5°	1468.8	1453.7	1429.9	1425.6	1434.2
50°	1397.4	1382.3	1358.5	1356.3	1360.7
52.5°	1323.9	1306.6	1287.1	1280.6	1287.1
55°	1248.2	1235.2	1209.2	1202.7	1211.4
57.5°	1168.1	1148.7	1127.0	1120.5	1129.2
60°	1079.4	1062.1	1038.3	1036.2	1051.3
62.5°	999.4	975.6	951.8	949.7	967.0
65°	904.2	882.6	858.8	867.5	878.3
67.5°	806.9	789.6	767.9	774.4	785.2
70°	713.9	692.2	677.1	672.8	664.1
72.5°	616.5	599.2	590.6	555.9	545.1
75°	517.0	497.5	488.9	434.8	415.3
77.5°	413.2	404.5	382.9	328.8	322.3
80°	320.2	315.8	268.2	272.6	279.1
82.5°	222.8	220.6	205.5	201.2	199.0
85°	134.1	127.6	127.6	125.5	121.1
87.5°	54.1	58.4	56.2	54.1	56.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)