

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: P184442

Luminaire Tested: **612EN-LD2-70-UNV-L835-CD1-U**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P184442
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-L835-CD1-U
Description: METALUX ENCOUNTER 600X1200 TROFFER

Light Source: EATON LED 3500K
Ballast/Driver: OSRAM ELECTRONIC DRIVER

Summary

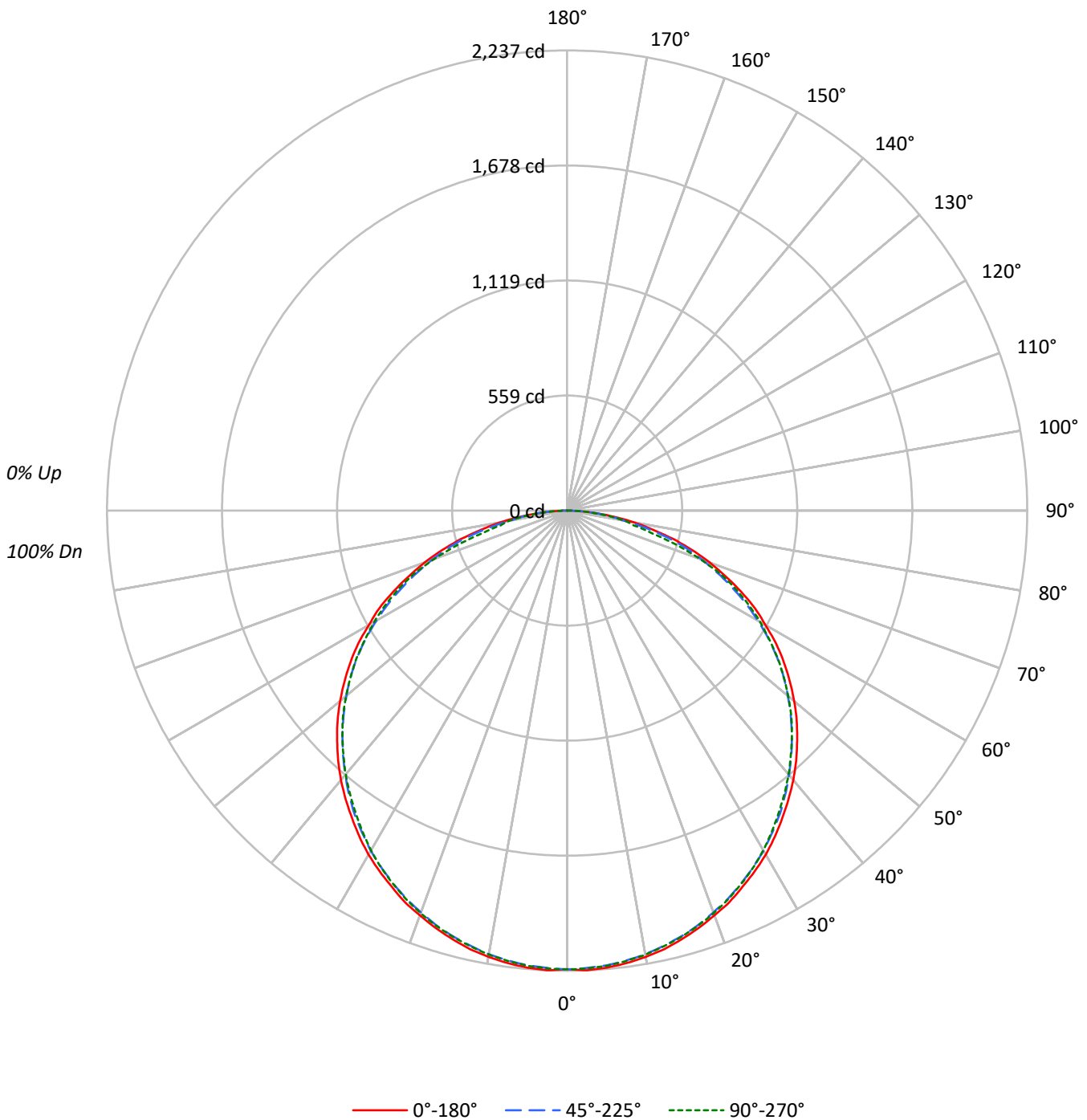
Lumens per Lamp: N/A
Luminaire Lumens: 6749.4 lumens
Efficiency: N/A
Efficacy: 112.1 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.27 / 1.4
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	3001	3001	3001
5°	3012	2997	3000
10°	3010	2992	2995
15°	3004	2985	2988
20°	2998	2976	2982
25°	2996	2970	2973
30°	3001	2966	2962
35°	2996	2960	2945
40°	3004	2946	2942
45°	3009	2941	2941
50°	3016	2932	2936
55°	3019	2924	2930
60°	2995	2881	2916
65°	2968	2819	2883
70°	2895	2746	2693
75°	2771	2620	2226
80°	2558	2142	2229
85°	2135	2032	1928



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	211.0	3.1
10°-20°	605.6	9.0
20°-30°	924.0	13.7
30°-40°	1128.8	16.7
40°-50°	1198.9	17.8
50°-60°	1121.0	16.6
60°-70°	890.1	13.2
70°-80°	519.3	7.7
80°-90°	150.7	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°	1740.6	25.8
0°-40°	2869.4	42.5
0°-60°	5189.3	76.9
0°-90°	6749.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6749.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2230	2230	2230	2230	2230	
5°	2230	2221	2219	2214	2221	212
15°	2156	2150	2143	2136	2145	609
25°	2018	2007	2000	1996	2003	931
35°	1824	1813	1802	1789	1793	1143
45°	1581	1568	1546	1539	1546	1221
55°	1287	1273	1247	1240	1249	1148
65°	932	910	885	894	905	920
75°	533	513	504	448	428	561
85°	138	132	132	129	125	160
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2230.1	2230.1	2230.1	2230.1	2230.1
2.5°	2236.8	2227.9	2225.7	2221.2	2227.9
5°	2230.1	2221.2	2219.0	2214.5	2221.2
7.5°	2219.0	2210.1	2205.6	2201.1	2207.8
10°	2203.4	2194.4	2190.0	2185.5	2192.2
12.5°	2183.3	2172.1	2167.7	2163.2	2169.9
15°	2156.5	2149.8	2143.1	2136.5	2145.4
17.5°	2127.5	2118.6	2114.2	2109.7	2116.4
20°	2094.1	2087.4	2078.5	2076.2	2082.9
22.5°	2060.6	2047.3	2042.8	2036.1	2045.0
25°	2018.3	2007.1	2000.4	1996.0	2002.6
27.5°	1975.9	1964.7	1955.8	1951.4	1958.0
30°	1931.3	1917.9	1909.0	1900.1	1906.8
32.5°	1880.0	1866.6	1855.5	1846.5	1851.0
35°	1824.2	1813.1	1801.9	1788.6	1793.0
37.5°	1768.5	1757.3	1741.7	1730.6	1735.0
40°	1710.5	1699.4	1677.1	1670.4	1674.8
42.5°	1648.1	1634.7	1612.4	1605.7	1610.1
45°	1581.2	1567.8	1545.5	1538.8	1545.5
47.5°	1514.3	1498.6	1474.1	1469.6	1478.6
50°	1440.7	1425.0	1400.5	1398.3	1402.7
52.5°	1364.8	1347.0	1326.9	1320.2	1326.9
55°	1286.8	1273.4	1246.6	1239.9	1248.9
57.5°	1204.3	1184.2	1161.9	1155.2	1164.1
60°	1112.8	1095.0	1070.5	1068.2	1083.8
62.5°	1030.3	1005.8	981.3	979.0	996.9
65°	932.2	909.9	885.4	894.3	905.4
67.5°	831.8	814.0	791.7	798.4	809.5
70°	735.9	713.6	698.0	693.6	684.6
72.5°	635.6	617.7	608.8	573.1	562.0
75°	533.0	512.9	504.0	448.3	428.2
77.5°	426.0	417.0	394.7	339.0	332.3
80°	330.1	325.6	276.5	281.0	287.7
82.5°	229.7	227.5	211.9	207.4	205.2
85°	138.3	131.6	131.6	129.3	124.9
87.5°	55.8	60.2	58.0	55.8	58.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)