

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: P184437

Luminaire Tested: **612EN-LD2-67-UNV-L835-CD1-U**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P184437
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-L835-CD1-U
Description: METALUX ENCOUNTER 600X1200 TROFFER

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

Summary

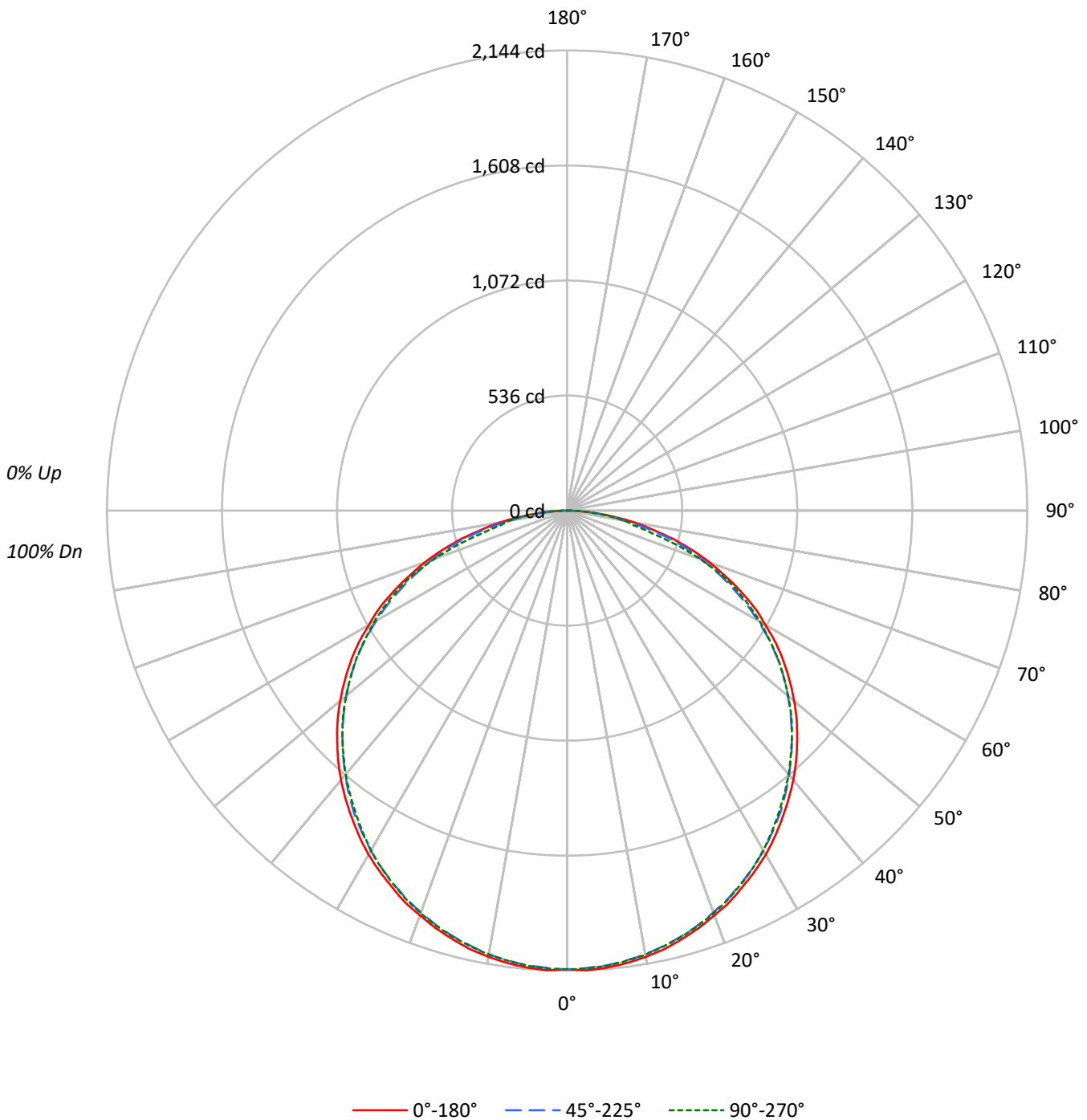
Lumens per Lamp: N/A
Luminaire Lumens: 6468.8 lumens
Efficiency: N/A
Efficacy: 115.3 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.27 / 1.4
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	2876	2876	2876
5°	2887	2872	2875
10°	2885	2868	2871
15°	2879	2861	2864
20°	2874	2852	2858
25°	2872	2846	2850
30°	2876	2843	2839
35°	2872	2837	2823
40°	2879	2823	2819
45°	2884	2818	2818
50°	2890	2810	2814
55°	2893	2803	2808
60°	2870	2761	2795
65°	2844	2701	2763
70°	2775	2632	2581
75°	2655	2511	2133
80°	2451	2053	2136
85°	2046	1947	1848



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	202.2	3.1
10°-20°	580.5	9.0
20°-30°	885.6	13.7
30°-40°	1081.9	16.7
40°-50°	1149.0	17.8
50°-60°	1074.4	16.6
60°-70°	853.1	13.2
70°-80°	497.7	7.7
80°-90°	144.4	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°	1668.3	25.8
0°-40°	2750.1	42.5
0°-60°	4973.6	76.9
0°-90°	6468.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6468.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2137	2137	2137	2137	2137	
5°	2137	2129	2127	2122	2129	203
15°	2067	2060	2054	2048	2056	584
25°	1934	1924	1917	1913	1919	893
35°	1748	1738	1727	1714	1718	1095
45°	1515	1503	1481	1475	1481	1170
55°	1233	1220	1195	1188	1197	1101
65°	893	872	848	857	868	882
75°	511	492	483	430	410	538
85°	132	126	126	124	120	153
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2137.4	2137.4	2137.4	2137.4	2137.4
2.5°	2143.8	2135.3	2133.1	2128.8	2135.3
5°	2137.4	2128.8	2126.7	2122.4	2128.8
7.5°	2126.7	2118.2	2113.9	2109.6	2116.0
10°	2111.7	2103.2	2098.9	2094.7	2101.1
12.5°	2092.5	2081.8	2077.6	2073.3	2079.7
15°	2066.9	2060.5	2054.0	2047.6	2056.2
17.5°	2039.1	2030.5	2026.3	2022.0	2028.4
20°	2007.0	2000.6	1992.1	1989.9	1996.3
22.5°	1975.0	1962.1	1957.9	1951.4	1960.0
25°	1934.3	1923.7	1917.2	1913.0	1919.4
27.5°	1893.7	1883.0	1874.5	1870.2	1876.6
30°	1851.0	1838.2	1829.6	1821.1	1827.5
32.5°	1801.8	1789.0	1778.3	1769.8	1774.0
35°	1748.4	1737.7	1727.0	1714.2	1718.5
37.5°	1695.0	1684.3	1669.3	1658.6	1662.9
40°	1639.4	1628.7	1607.3	1600.9	1605.2
42.5°	1579.5	1566.7	1545.3	1538.9	1543.2
45°	1515.4	1502.6	1481.2	1474.8	1481.2
47.5°	1451.3	1436.3	1412.8	1408.5	1417.1
50°	1380.8	1365.8	1342.3	1340.1	1344.4
52.5°	1308.1	1291.0	1271.8	1265.3	1271.8
55°	1233.3	1220.5	1194.8	1188.4	1196.9
57.5°	1154.2	1135.0	1113.6	1107.2	1115.7
60°	1066.6	1049.5	1026.0	1023.8	1038.8
62.5°	987.5	964.0	940.5	938.3	955.4
65°	893.4	872.1	848.5	857.1	867.8
67.5°	797.2	780.2	758.8	765.2	775.9
70°	705.3	684.0	669.0	664.7	656.2
72.5°	609.2	592.1	583.5	549.3	538.6
75°	510.8	491.6	483.1	429.6	410.4
77.5°	408.2	399.7	378.3	324.9	318.5
80°	316.3	312.1	265.0	269.3	275.7
82.5°	220.2	218.0	203.1	198.8	196.6
85°	132.5	126.1	126.1	124.0	119.7
87.5°	53.4	57.7	55.6	53.4	55.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)