

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: P184447

Luminaire Tested: **612EN-LD2-74-UNV-L835-CD1-U**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P184447  
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-LD2-74-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: 7192.4 lumens  
Efficiency: N/A  
Efficacy: 113.1 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

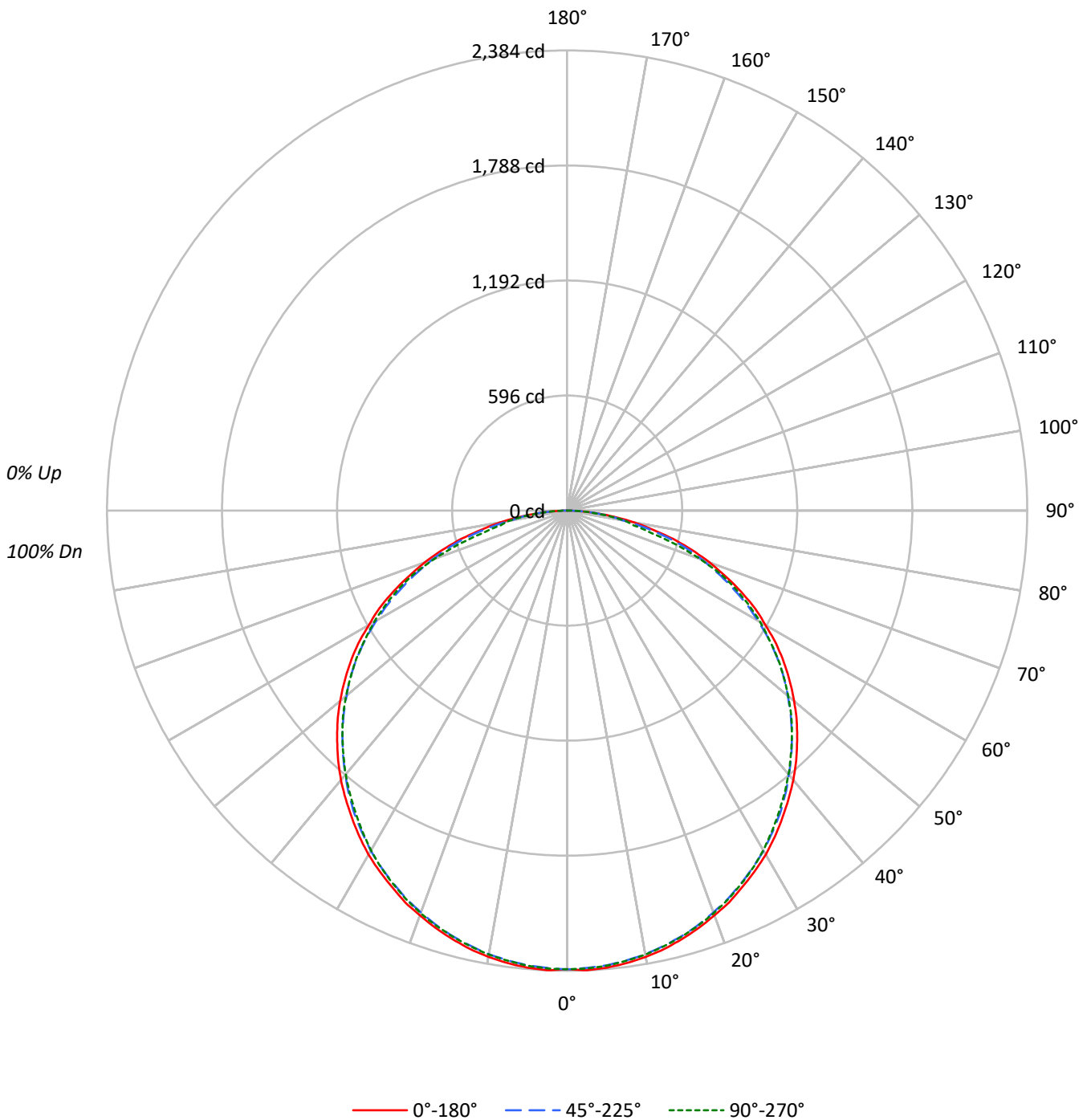
Input Watts (W): 63.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	3198	3198	3198
5°	3210	3194	3197
10°	3208	3188	3192
15°	3201	3181	3185
20°	3195	3171	3178
25°	3193	3165	3168
30°	3198	3161	3157
35°	3193	3154	3138
40°	3202	3139	3135
45°	3206	3134	3134
50°	3213	3124	3129
55°	3217	3116	3122
60°	3191	3070	3108
65°	3163	3004	3072
70°	3085	2926	2870
75°	2953	2792	2372
80°	2725	2283	2376
85°	2274	2164	2055



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	224.8	3.1
10°-20°	645.4	9.0
20°-30°	984.7	13.7
30°-40°	1202.9	16.7
40°-50°	1277.6	17.8
50°-60°	1194.6	16.6
60°-70°	948.6	13.2
70°-80°	553.4	7.7
80°-90°	160.5	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°	1854.9	25.8
0°-40°	3057.8	42.5
0°-60°	5529.9	76.9
0°-90°	7192.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7192.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2376	2376	2376	2376	2376	
5°	2376	2367	2365	2360	2367	226
15°	2298	2291	2284	2277	2286	649
25°	2151	2139	2132	2127	2134	992
35°	1944	1932	1920	1906	1911	1218
45°	1685	1671	1647	1640	1647	1301
55°	1371	1357	1328	1321	1331	1224
65°	993	970	944	953	965	981
75°	568	547	537	478	456	598
85°	147	140	140	138	133	171
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2376.5	2376.5	2376.5	2376.5	2376.5
2.5°	2383.6	2374.1	2371.8	2367.0	2374.1
5°	2376.5	2367.0	2364.6	2359.9	2367.0
7.5°	2364.6	2355.1	2350.4	2345.6	2352.7
10°	2348.0	2338.5	2333.7	2329.0	2336.1
12.5°	2326.6	2314.7	2310.0	2305.2	2312.3
15°	2298.1	2291.0	2283.8	2276.7	2286.2
17.5°	2267.2	2257.7	2252.9	2248.2	2255.3
20°	2231.5	2224.4	2214.9	2212.5	2219.7
22.5°	2195.9	2181.6	2176.9	2169.8	2179.3
25°	2150.7	2138.9	2131.7	2127.0	2134.1
27.5°	2105.6	2093.7	2084.2	2079.4	2086.6
30°	2058.1	2043.8	2034.3	2024.8	2031.9
32.5°	2003.4	1989.1	1977.3	1967.7	1972.5
35°	1944.0	1932.1	1920.2	1906.0	1910.7
37.5°	1884.6	1872.7	1856.1	1844.2	1848.9
40°	1822.8	1810.9	1787.1	1780.0	1784.8
42.5°	1756.2	1742.0	1718.2	1711.1	1715.8
45°	1684.9	1670.7	1646.9	1639.8	1646.9
47.5°	1613.7	1597.0	1570.9	1566.1	1575.6
50°	1535.2	1518.6	1492.4	1490.1	1494.8
52.5°	1454.4	1435.4	1414.0	1406.9	1414.0
55°	1371.2	1357.0	1328.5	1321.3	1330.8
57.5°	1283.3	1261.9	1238.2	1231.0	1240.5
60°	1185.9	1166.9	1140.7	1138.3	1155.0
62.5°	1097.9	1071.8	1045.7	1043.3	1062.3
65°	993.4	969.6	943.5	953.0	964.9
67.5°	886.4	867.4	843.7	850.8	862.7
70°	784.2	760.5	743.8	739.1	729.6
72.5°	677.3	658.3	648.8	610.8	598.9
75°	568.0	546.6	537.1	477.7	456.3
77.5°	453.9	444.4	420.6	361.2	354.1
80°	351.7	347.0	294.7	299.4	306.6
82.5°	244.8	242.4	225.8	221.0	218.6
85°	147.3	140.2	140.2	137.8	133.1
87.5°	59.4	64.2	61.8	59.4	61.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)