

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: P184449

Luminaire Tested: **612EN-LD2-74-UNV-L850-CD1-U**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P184449  
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-L850-CD1-U  
Description: METALUX ENCOUNTER 600X1200 TROFFER  
  
Light Source: EATON LED 5000K  
Ballast/Driver: OSRAM ELECTRONIC DRIVER

**Summary**

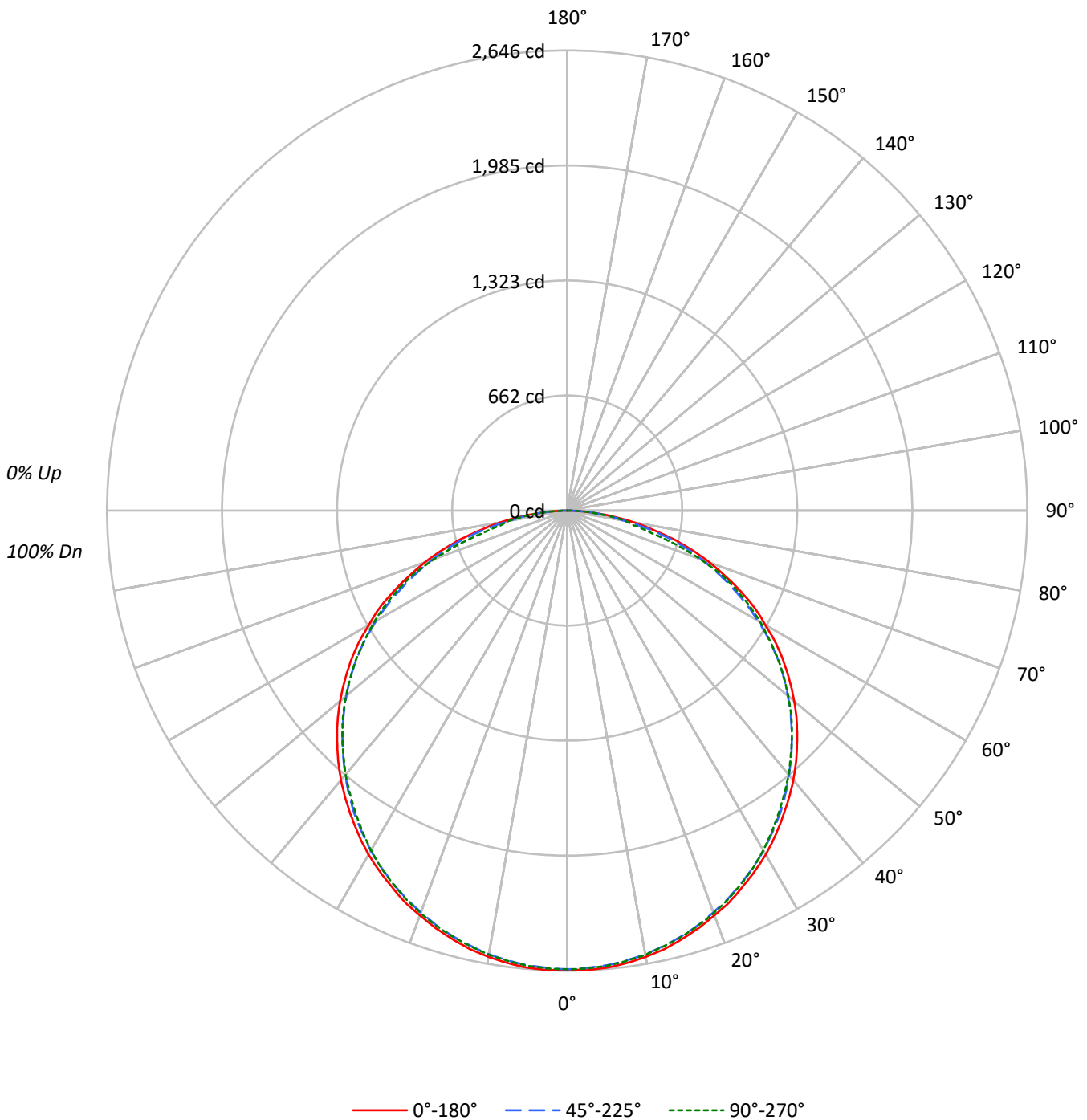
Lumens per Lamp: N/A  
Luminaire Lumens: 7983.6 lumens  
Efficiency: N/A  
Efficacy: 125.5 lumens/watt  
Spacing Criteria (0/90/45): 1.29 / 1.27 / 1.4  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 63.6  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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°	3549	3549	3549
5°	3563	3545	3549
10°	3561	3539	3543
15°	3553	3531	3535
20°	3547	3520	3528
25°	3544	3513	3517
30°	3549	3508	3504
35°	3544	3501	3484
40°	3554	3484	3480
45°	3559	3479	3479
50°	3567	3468	3473
55°	3571	3459	3465
60°	3542	3407	3450
65°	3511	3334	3410
70°	3425	3248	3186
75°	3278	3099	2633
80°	3025	2534	2637
85°	2526	2402	2280



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	249.6	3.1
10°-20°	716.4	9.0
20°-30°	1093.0	13.7
30°-40°	1335.2	16.7
40°-50°	1418.1	17.8
50°-60°	1326.0	16.6
60°-70°	1052.9	13.2
70°-80°	614.2	7.7
80°-90°	178.2	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°	2058.9	25.8
0°-40°	3394.1	42.5
0°-60°	6138.3	76.9
0°-90°	7983.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7983.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2638	2638	2638	2638	2638	
5°	2638	2627	2625	2620	2627	251
15°	2551	2543	2535	2527	2538	720
25°	2387	2374	2366	2361	2369	1102
35°	2158	2145	2131	2116	2121	1352
45°	1870	1854	1828	1820	1828	1444
55°	1522	1506	1475	1467	1477	1358
65°	1103	1076	1047	1058	1071	1089
75°	630	607	596	530	506	664
85°	164	156	156	153	148	189
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2637.9	2637.9	2637.9	2637.9	2637.9
2.5°	2645.8	2635.3	2632.6	2627.4	2635.3
5°	2637.9	2627.4	2624.7	2619.5	2627.4
7.5°	2624.7	2614.2	2608.9	2603.6	2611.5
10°	2606.3	2595.7	2590.4	2585.2	2593.1
12.5°	2582.5	2569.3	2564.1	2558.8	2566.7
15°	2550.9	2543.0	2535.0	2527.1	2537.7
17.5°	2516.6	2506.0	2500.8	2495.5	2503.4
20°	2477.0	2469.1	2458.5	2455.9	2463.8
22.5°	2437.4	2421.6	2416.3	2408.4	2419.0
25°	2387.3	2374.1	2366.2	2360.9	2368.9
27.5°	2337.2	2324.0	2313.5	2308.2	2316.1
30°	2284.4	2268.6	2258.1	2247.5	2255.4
32.5°	2223.8	2207.9	2194.8	2184.2	2189.5
35°	2157.8	2144.6	2131.4	2115.6	2120.9
37.5°	2091.9	2078.7	2060.2	2047.0	2052.3
40°	2023.3	2010.1	1983.7	1975.8	1981.1
42.5°	1949.4	1933.6	1907.2	1899.3	1904.6
45°	1870.3	1854.5	1828.1	1820.2	1828.1
47.5°	1791.2	1772.7	1743.7	1738.4	1748.9
50°	1704.1	1685.6	1656.6	1654.0	1659.3
52.5°	1614.4	1593.3	1569.6	1561.7	1569.6
55°	1522.1	1506.3	1474.6	1466.7	1477.2
57.5°	1424.5	1400.7	1374.4	1366.4	1377.0
60°	1316.3	1295.2	1266.2	1263.6	1282.0
62.5°	1218.7	1189.7	1160.7	1158.0	1179.2
65°	1102.7	1076.3	1047.3	1057.8	1071.0
67.5°	983.9	962.8	936.5	944.4	957.6
70°	870.5	844.1	825.7	820.4	809.8
72.5°	751.8	730.7	720.2	677.9	664.8
75°	630.5	606.7	596.2	530.2	506.5
77.5°	503.8	493.3	466.9	401.0	393.1
80°	390.4	385.1	327.1	332.4	340.3
82.5°	271.7	269.1	250.6	245.3	242.7
85°	163.6	155.6	155.6	153.0	147.7
87.5°	65.9	71.2	68.6	65.9	68.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)