

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: P184444

Luminaire Tested: **612EN-LD2-70-UNV-L850-CD1-U**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P184444
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-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: 7491.8 lumens
Efficiency: N/A
Efficacy: 124.4 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

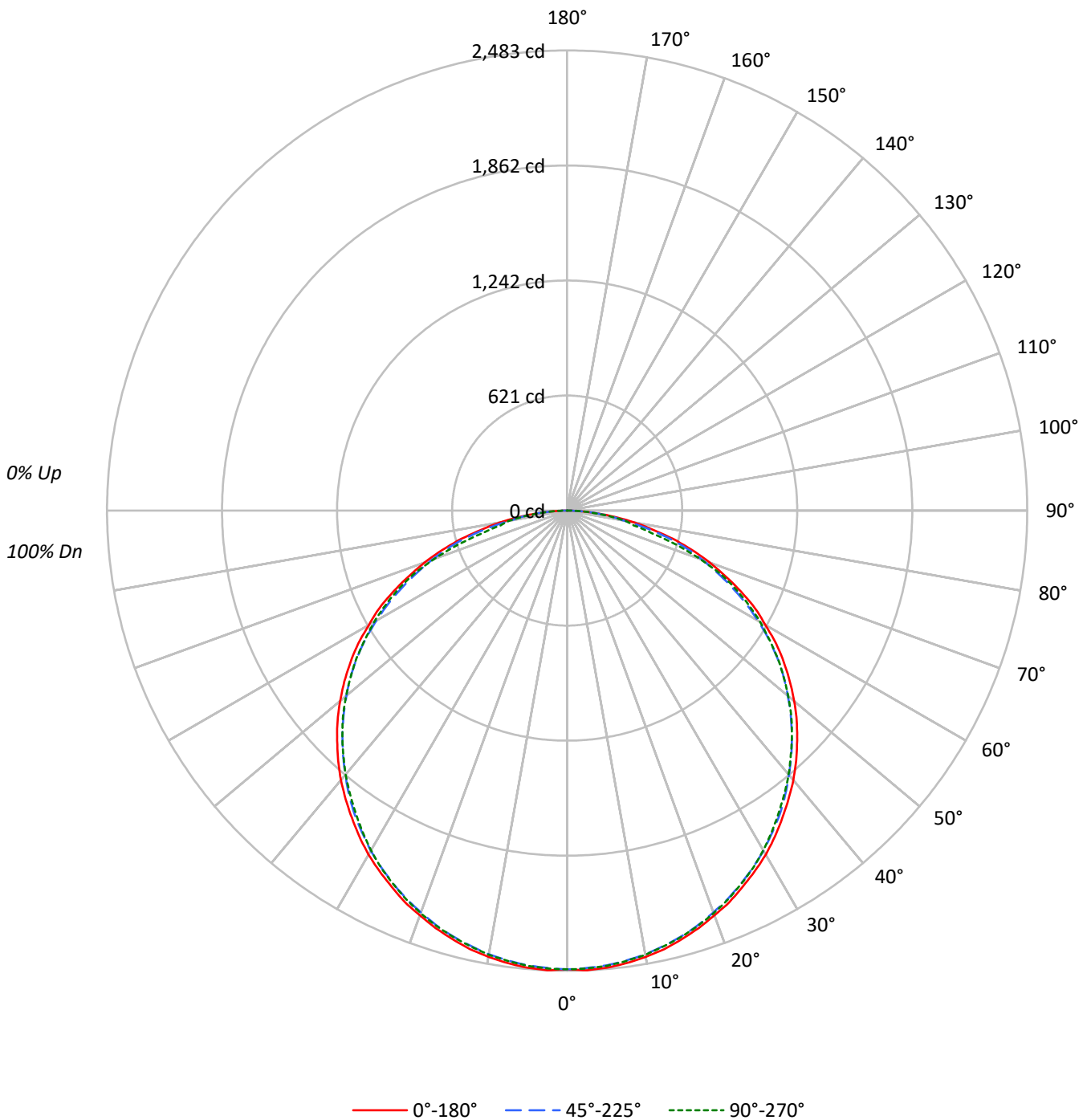
Input Watts (W): 60.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3331	3331	3331
5°	3343	3327	3330
10°	3341	3321	3325
15°	3334	3314	3317
20°	3328	3303	3311
25°	3326	3297	3300
30°	3331	3292	3288
35°	3326	3285	3269
40°	3335	3270	3265
45°	3340	3264	3264
50°	3347	3254	3259
55°	3350	3246	3252
60°	3324	3197	3238
65°	3294	3129	3200
70°	3214	3048	2990
75°	3075	2908	2471
80°	2839	2379	2474
85°	2370	2255	2140



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	234.2	3.1
10°-20°	672.3	9.0
20°-30°	1025.6	13.7
30°-40°	1253.0	16.7
40°-50°	1330.8	17.8
50°-60°	1244.3	16.6
60°-70°	988.0	13.2
70°-80°	576.4	7.7
80°-90°	167.2	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°	1932.1	25.8
0°-40°	3185.1	42.5
0°-60°	5760.2	76.9
0°-90°	7491.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7491.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2475	2475	2475	2475	2475	
5°	2475	2466	2463	2458	2466	235
15°	2394	2386	2379	2372	2381	676
25°	2240	2228	2220	2216	2223	1034
35°	2025	2012	2000	1985	1990	1268
45°	1755	1740	1716	1708	1716	1355
55°	1428	1414	1384	1376	1386	1275
65°	1035	1010	983	993	1005	1022
75°	592	569	559	498	475	623
85°	154	146	146	144	139	178
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2475.4	2475.4	2475.4	2475.4	2475.4
2.5°	2482.9	2473.0	2470.5	2465.5	2473.0
5°	2475.4	2465.5	2463.1	2458.1	2465.5
7.5°	2463.1	2453.2	2448.2	2443.3	2450.7
10°	2445.7	2435.8	2430.9	2425.9	2433.4
12.5°	2423.5	2411.1	2406.1	2401.2	2408.6
15°	2393.7	2386.3	2378.9	2371.5	2381.4
17.5°	2361.6	2351.7	2346.7	2341.8	2349.2
20°	2324.4	2317.0	2307.1	2304.6	2312.1
22.5°	2287.3	2272.4	2267.5	2260.1	2270.0
25°	2240.3	2227.9	2220.5	2215.5	2222.9
27.5°	2193.2	2180.9	2171.0	2166.0	2173.4
30°	2143.7	2128.9	2119.0	2109.1	2116.5
32.5°	2086.8	2071.9	2059.6	2049.7	2054.6
35°	2024.9	2012.5	2000.2	1985.3	1990.2
37.5°	1963.0	1950.6	1933.3	1920.9	1925.9
40°	1898.7	1886.3	1861.5	1854.1	1859.1
42.5°	1829.3	1814.5	1789.7	1782.3	1787.3
45°	1755.1	1740.2	1715.5	1708.0	1715.5
47.5°	1680.8	1663.5	1636.3	1631.3	1641.2
50°	1599.1	1581.8	1554.6	1552.1	1557.0
52.5°	1515.0	1495.2	1472.9	1465.5	1472.9
55°	1428.3	1413.5	1383.8	1376.3	1386.2
57.5°	1336.7	1314.5	1289.7	1282.3	1292.2
60°	1235.2	1215.4	1188.2	1185.7	1203.1
62.5°	1143.7	1116.4	1089.2	1086.7	1106.5
65°	1034.7	1010.0	982.7	992.6	1005.0
67.5°	923.3	903.5	878.8	886.2	898.6
70°	816.9	792.1	774.8	769.9	760.0
72.5°	705.5	685.7	675.8	636.2	623.8
75°	591.6	569.3	559.4	497.6	475.3
77.5°	472.8	462.9	438.2	376.3	368.8
80°	366.4	361.4	307.0	311.9	319.3
82.5°	255.0	252.5	235.2	230.2	227.7
85°	153.5	146.1	146.1	143.6	138.6
87.5°	61.9	66.8	64.4	61.9	64.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)