

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: P184439

Luminaire Tested: **612EN-LD2-67-UNV-L850-CD1-U**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P184439
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-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: 7180.3 lumens
Efficiency: N/A
Efficacy: 128.0 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

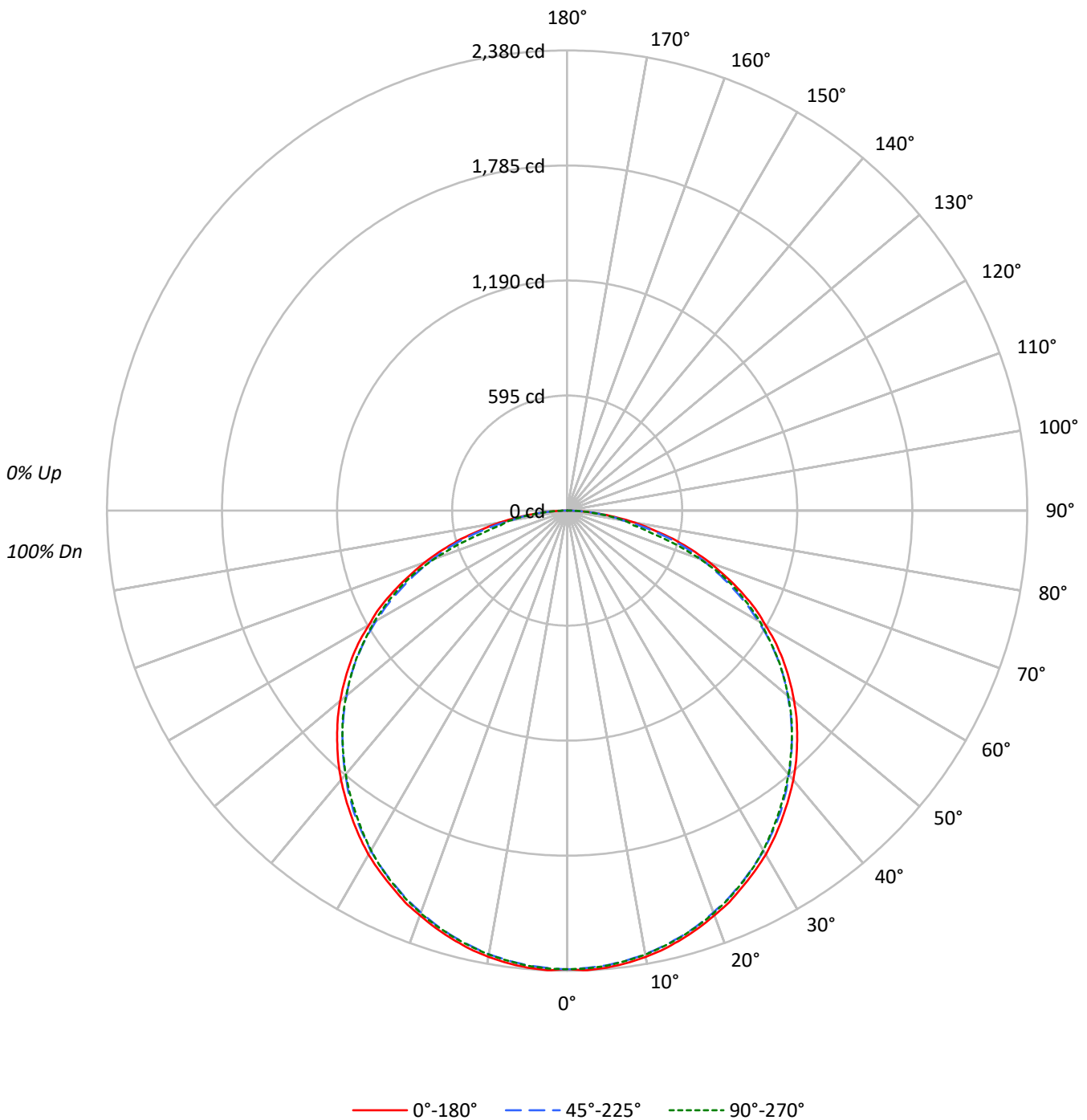
Input Watts (W): 56.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3192	3192	3192
5°	3204	3188	3192
10°	3202	3183	3186
15°	3196	3176	3179
20°	3190	3166	3173
25°	3188	3159	3163
30°	3192	3155	3152
35°	3188	3149	3133
40°	3196	3134	3130
45°	3201	3129	3129
50°	3208	3119	3124
55°	3211	3111	3117
60°	3186	3064	3103
65°	3157	2999	3067
70°	3080	2921	2865
75°	2948	2787	2368
80°	2720	2280	2372
85°	2271	2161	2052



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	224.5	3.1
10°-20°	644.3	9.0
20°-30°	983.0	13.7
30°-40°	1200.9	16.7
40°-50°	1275.4	17.8
50°-60°	1192.6	16.6
60°-70°	947.0	13.2
70°-80°	552.4	7.7
80°-90°	160.3	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°	1851.8	25.8
0°-40°	3052.6	42.5
0°-60°	5520.7	76.9
0°-90°	7180.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7180.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2372	2372	2372	2372	2372	
5°	2372	2363	2361	2356	2363	226
15°	2294	2287	2280	2273	2282	648
25°	2147	2135	2128	2123	2130	991
35°	1941	1929	1917	1903	1908	1216
45°	1682	1668	1644	1637	1644	1299
55°	1369	1355	1326	1319	1329	1222
65°	992	968	942	951	963	979
75°	567	546	536	477	456	597
85°	147	140	140	138	133	170
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2372.5	2372.5	2372.5	2372.5	2372.5
2.5°	2379.6	2370.1	2367.8	2363.0	2370.1
5°	2372.5	2363.0	2360.6	2355.9	2363.0
7.5°	2360.6	2351.2	2346.4	2341.7	2348.8
10°	2344.0	2334.6	2329.8	2325.1	2332.2
12.5°	2322.7	2310.8	2306.1	2301.3	2308.5
15°	2294.2	2287.1	2280.0	2272.9	2282.4
17.5°	2263.4	2253.9	2249.1	2244.4	2251.5
20°	2227.8	2220.7	2211.2	2208.8	2215.9
22.5°	2192.2	2178.0	2173.2	2166.1	2175.6
25°	2147.1	2135.3	2128.1	2123.4	2130.5
27.5°	2102.0	2090.2	2080.7	2075.9	2083.1
30°	2054.6	2040.4	2030.9	2021.4	2028.5
32.5°	2000.0	1985.8	1973.9	1964.4	1969.2
35°	1940.7	1928.9	1917.0	1902.8	1907.5
37.5°	1881.4	1869.5	1852.9	1841.1	1845.8
40°	1819.7	1807.9	1784.1	1777.0	1781.8
42.5°	1753.3	1739.1	1715.3	1708.2	1713.0
45°	1682.1	1667.9	1644.2	1637.0	1644.2
47.5°	1610.9	1594.3	1568.2	1563.5	1573.0
50°	1532.6	1516.0	1489.9	1487.6	1492.3
52.5°	1452.0	1433.0	1411.6	1404.5	1411.6
55°	1368.9	1354.7	1326.2	1319.1	1328.6
57.5°	1281.2	1259.8	1236.1	1229.0	1238.5
60°	1183.9	1164.9	1138.8	1136.4	1153.0
62.5°	1096.1	1070.0	1043.9	1041.5	1060.5
65°	991.7	968.0	941.9	951.4	963.2
67.5°	884.9	866.0	842.2	849.4	861.2
70°	782.9	759.2	742.6	737.9	728.4
72.5°	676.2	657.2	647.7	609.7	597.9
75°	567.0	545.7	536.2	476.9	455.5
77.5°	453.1	443.7	419.9	360.6	353.5
80°	351.1	346.4	294.2	298.9	306.1
82.5°	244.4	242.0	225.4	220.6	218.3
85°	147.1	140.0	140.0	137.6	132.9
87.5°	59.3	64.1	61.7	59.3	61.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)