

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: P184448

Luminaire Tested: **612EN-LD2-74-UNV-L840-CD1-U**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P184448
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-L840-CD1-U
Description: METALUX ENCOUNTER 600X1200 TROFFER

Light Source: EATON LED 4000K
Ballast/Driver: OSRAM ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7336.2 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

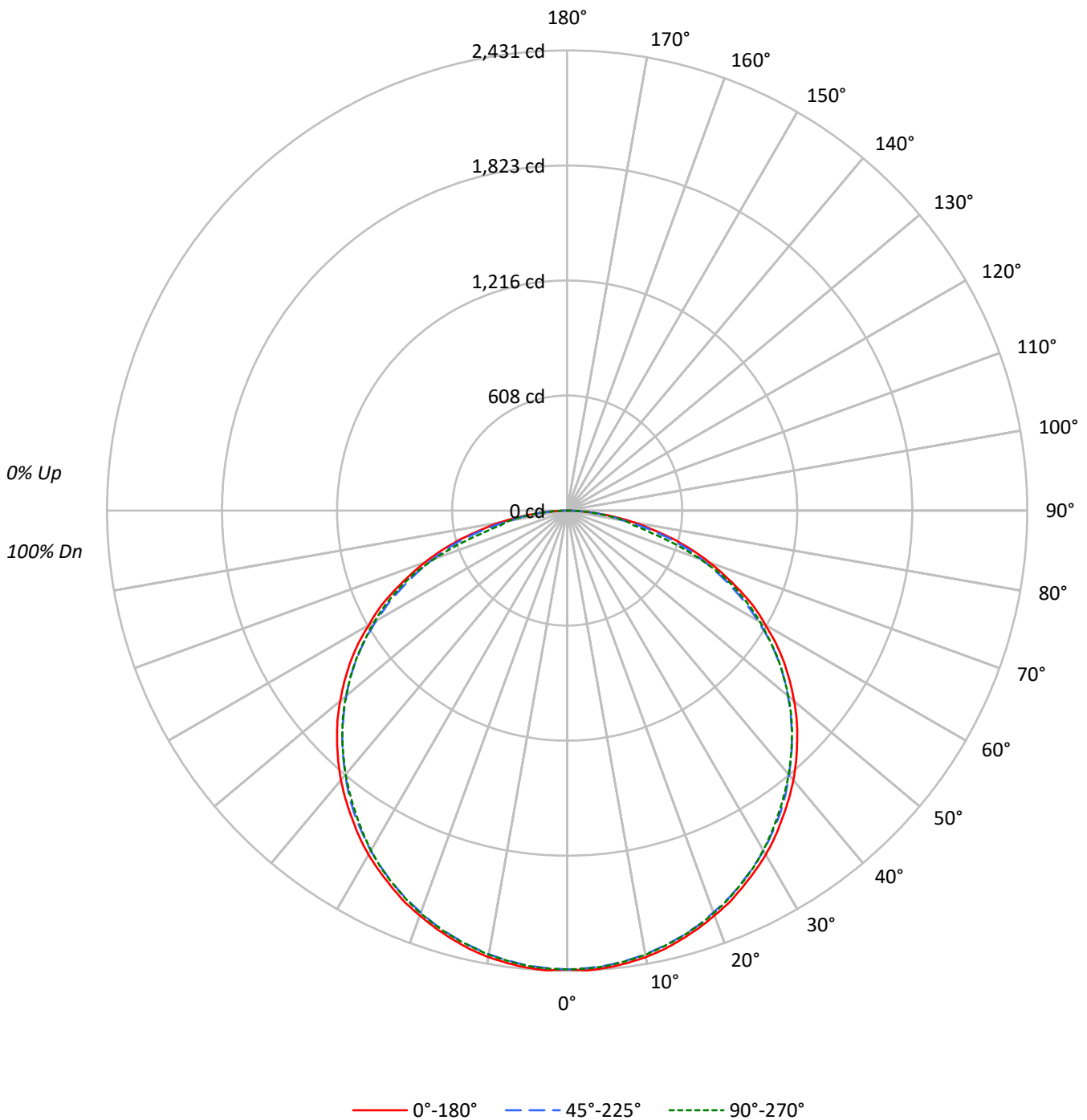
Input Watts (W): 63.6
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3261	3261	3261
5°	3274	3258	3261
10°	3272	3252	3255
15°	3265	3245	3248
20°	3259	3235	3242
25°	3257	3228	3232
30°	3261	3224	3220
35°	3257	3217	3201
40°	3266	3202	3198
45°	3270	3197	3197
50°	3278	3186	3192
55°	3281	3179	3184
60°	3255	3131	3170
65°	3226	3064	3133
70°	3147	2985	2928
75°	3012	2848	2419
80°	2780	2329	2423
85°	2320	2208	2095



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	229.3	3.1
10°-20°	658.3	9.0
20°-30°	1004.3	13.7
30°-40°	1226.9	16.7
40°-50°	1303.1	17.8
50°-60°	1218.5	16.6
60°-70°	967.5	13.2
70°-80°	564.4	7.7
80°-90°	163.7	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°	1892.0	25.8
0°-40°	3118.9	42.5
0°-60°	5640.6	76.9
0°-90°	7336.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7336.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2424	2424	2424	2424	2424	
5°	2424	2414	2412	2407	2414	230
15°	2344	2337	2330	2322	2332	662
25°	2194	2182	2174	2170	2177	1012
35°	1983	1971	1959	1944	1949	1242
45°	1719	1704	1680	1673	1680	1327
55°	1399	1384	1355	1348	1358	1248
65°	1013	989	962	972	984	1000
75°	579	558	548	487	465	610
85°	150	143	143	141	136	174
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2424.0	2424.0	2424.0	2424.0	2424.0
2.5°	2431.3	2421.6	2419.2	2414.3	2421.6
5°	2424.0	2414.3	2411.9	2407.1	2414.3
7.5°	2411.9	2402.2	2397.4	2392.5	2399.8
10°	2395.0	2385.3	2380.4	2375.6	2382.8
12.5°	2373.1	2361.0	2356.2	2351.3	2358.6
15°	2344.0	2336.8	2329.5	2322.2	2331.9
17.5°	2312.5	2302.8	2298.0	2293.1	2300.4
20°	2276.2	2268.9	2259.2	2256.8	2264.1
22.5°	2239.8	2225.3	2220.4	2213.1	2222.8
25°	2193.8	2181.6	2174.4	2169.5	2176.8
27.5°	2147.7	2135.6	2125.9	2121.0	2128.3
30°	2099.2	2084.7	2075.0	2065.3	2072.6
32.5°	2043.5	2028.9	2016.8	2007.1	2012.0
35°	1982.9	1970.7	1958.6	1944.1	1948.9
37.5°	1922.3	1910.1	1893.2	1881.1	1885.9
40°	1859.2	1847.1	1822.9	1815.6	1820.5
42.5°	1791.4	1776.8	1752.6	1745.3	1750.2
45°	1718.6	1704.1	1679.9	1672.6	1679.9
47.5°	1645.9	1629.0	1602.3	1597.4	1607.1
50°	1565.9	1549.0	1522.3	1519.9	1524.7
52.5°	1483.5	1464.1	1442.3	1435.0	1442.3
55°	1398.7	1384.1	1355.0	1347.8	1357.5
57.5°	1309.0	1287.2	1262.9	1255.7	1265.3
60°	1209.6	1190.2	1163.5	1161.1	1178.1
62.5°	1119.9	1093.2	1066.6	1064.2	1083.5
65°	1013.2	989.0	962.3	972.0	984.2
67.5°	904.2	884.8	860.5	867.8	879.9
70°	799.9	775.7	758.7	753.9	744.2
72.5°	690.9	671.5	661.8	623.0	610.9
75°	579.3	557.5	547.8	487.2	465.4
77.5°	463.0	453.3	429.1	368.5	361.2
80°	358.8	353.9	300.6	305.4	312.7
82.5°	249.7	247.3	230.3	225.4	223.0
85°	150.3	143.0	143.0	140.6	135.7
87.5°	60.6	65.4	63.0	60.6	63.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)