

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: P184419

Luminaire Tested: **612EN-LD2-45-UNV-L850-CD1-U**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P184419
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-LD2-45-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: 4821.7 lumens
Efficiency: N/A
Efficacy: 126.9 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

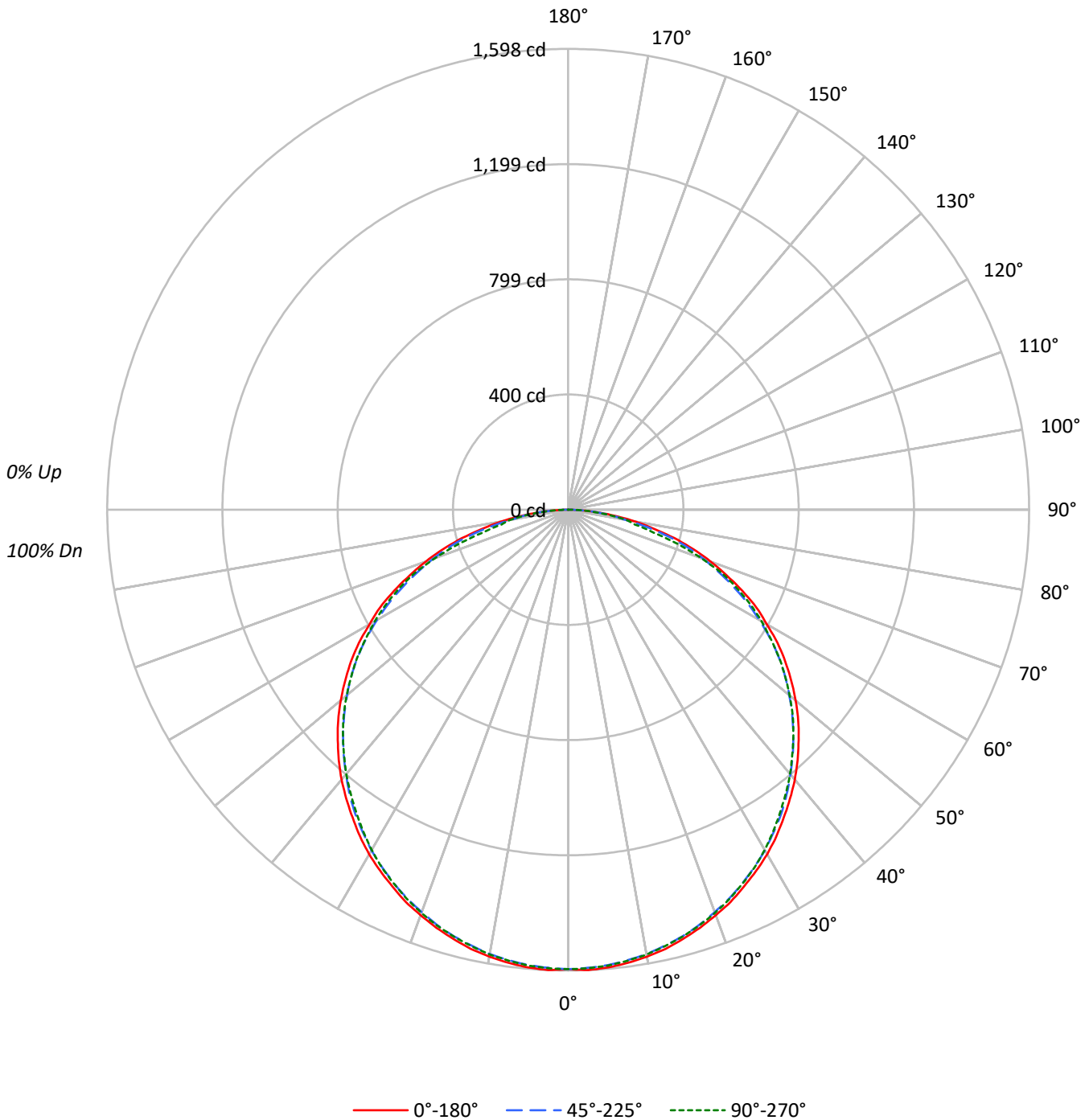
Input Watts (W): 38
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2144	2144	2144
5°	2152	2141	2143
10°	2151	2137	2140
15°	2146	2133	2135
20°	2142	2126	2131
25°	2140	2122	2124
30°	2144	2119	2116
35°	2141	2114	2104
40°	2146	2104	2102
45°	2149	2101	2101
50°	2154	2094	2098
55°	2156	2089	2093
60°	2139	2058	2084
65°	2120	2014	2059
70°	2068	1962	1924
75°	1980	1872	1590
80°	1827	1531	1592
85°	1525	1451	1377



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.7	3.1
10°-20°	432.7	9.0
20°-30°	660.1	13.7
30°-40°	806.4	16.7
40°-50°	856.5	17.8
50°-60°	800.8	16.6
60°-70°	635.9	13.2
70°-80°	371.0	7.7
80°-90°	107.6	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°	1243.5	25.8
0°-40°	2049.9	42.5
0°-60°	3707.2	76.9
0°-90°	4821.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4821.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1593	1593	1593	1593	1593	
5°	1593	1587	1585	1582	1587	151
15°	1541	1536	1531	1526	1533	435
25°	1442	1434	1429	1426	1431	665
35°	1303	1295	1287	1278	1281	816
45°	1130	1120	1104	1099	1104	872
55°	919	910	891	886	892	820
65°	666	650	632	639	647	658
75°	381	366	360	320	306	401
85°	99	94	94	92	89	114
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1593.2	1593.2	1593.2	1593.2	1593.2
2.5°	1598.0	1591.6	1590.0	1586.8	1591.6
5°	1593.2	1586.8	1585.2	1582.0	1586.8
7.5°	1585.2	1578.9	1575.7	1572.5	1577.3
10°	1574.1	1567.7	1564.5	1561.3	1566.1
12.5°	1559.7	1551.8	1548.6	1545.4	1550.2
15°	1540.6	1535.8	1531.1	1526.3	1532.6
17.5°	1519.9	1513.5	1510.3	1507.2	1511.9
20°	1496.0	1491.2	1484.9	1483.3	1488.0
22.5°	1472.1	1462.5	1459.4	1454.6	1461.0
25°	1441.8	1433.9	1429.1	1425.9	1430.7
27.5°	1411.6	1403.6	1397.2	1394.0	1398.8
30°	1379.7	1370.1	1363.8	1357.4	1362.2
32.5°	1343.1	1333.5	1325.5	1319.2	1322.3
35°	1303.2	1295.3	1287.3	1277.7	1280.9
37.5°	1263.4	1255.4	1244.3	1236.3	1239.5
40°	1222.0	1214.0	1198.1	1193.3	1196.5
42.5°	1177.4	1167.8	1151.9	1147.1	1150.3
45°	1129.6	1120.0	1104.1	1099.3	1104.1
47.5°	1081.8	1070.6	1053.1	1049.9	1056.3
50°	1029.2	1018.0	1000.5	998.9	1002.1
52.5°	975.0	962.3	947.9	943.2	947.9
55°	919.3	909.7	890.6	885.8	892.2
57.5°	860.3	846.0	830.1	825.3	831.6
60°	795.0	782.3	764.7	763.1	774.3
62.5°	736.1	718.5	701.0	699.4	712.2
65°	666.0	650.0	632.5	638.9	646.8
67.5°	594.3	581.5	565.6	570.4	578.3
70°	525.8	509.8	498.7	495.5	489.1
72.5°	454.1	441.3	434.9	409.4	401.5
75°	380.8	366.4	360.1	320.2	305.9
77.5°	304.3	297.9	282.0	242.2	237.4
80°	235.8	232.6	197.6	200.7	205.5
82.5°	164.1	162.5	151.4	148.2	146.6
85°	98.8	94.0	94.0	92.4	89.2
87.5°	39.8	43.0	41.4	39.8	41.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)