

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: P184417

Luminaire Tested: **612EN-LD2-45-UNV-L835-CD1-U**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P184417
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-L835-CD1-U
Description: METALUX ENCOUNTER 600X1200 TROFFER

Light Source: EATON LED 3500K
Ballast/Driver: OSRAM ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4343.9 lumens
Efficiency: N/A
Efficacy: 114.3 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

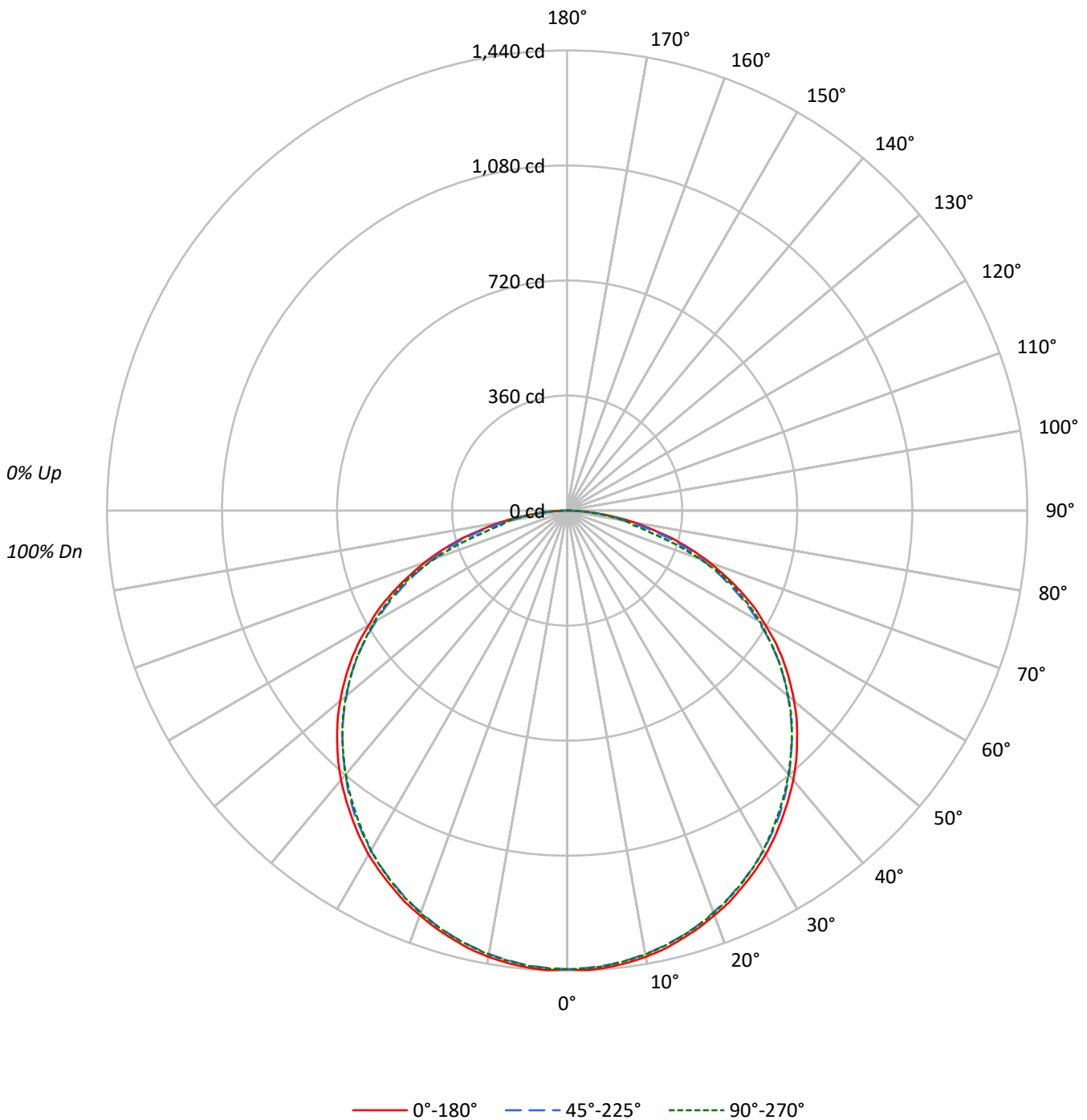
Input Watts (W): 38
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	108	103	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85
2	98	90	83	77	95	88	81	76	84	79	74	81	76	72	78	74	71
3	89	78	70	63	87	77	69	63	74	67	62	71	65	60	68	64	59
4	82	69	60	53	79	68	59	53	65	58	52	63	57	51	61	55	51
5	75	62	52	46	73	61	52	45	58	51	45	56	50	44	54	49	44
6	69	55	46	40	67	54	46	39	53	45	39	51	44	39	49	43	38
7	64	50	41	35	62	49	41	35	48	40	35	46	39	34	45	39	34
8	59	46	37	31	58	45	37	31	44	36	31	42	36	31	41	35	30
9	56	42	34	28	54	41	33	28	40	33	28	39	32	27	38	32	27
10	52	39	31	25	51	38	30	25	37	30	25	36	30	25	35	29	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1931	1931	1931
5°	1939	1929	1931
10°	1937	1926	1928
15°	1933	1921	1923
20°	1930	1915	1920
25°	1928	1911	1913
30°	1931	1909	1907
35°	1929	1905	1895
40°	1934	1896	1893
45°	1936	1893	1893
50°	1941	1887	1890
55°	1943	1882	1886
60°	1927	1854	1877
65°	1910	1814	1855
70°	1864	1768	1733
75°	1783	1686	1433
80°	1646	1379	1435
85°	1374	1308	1241



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.8	3.1
10°-20°	389.8	9.0
20°-30°	594.7	13.7
30°-40°	726.5	16.7
40°-50°	771.6	17.8
50°-60°	721.5	16.6
60°-70°	572.9	13.2
70°-80°	334.2	7.7
80°-90°	97.0	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°	1120.3	25.8
0°-40°	1846.8	42.5
0°-60°	3339.8	76.9
0°-90°	4343.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4343.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1435	1435	1435	1435	1435	
5°	1435	1430	1428	1425	1430	136
15°	1388	1384	1379	1375	1381	392
25°	1299	1292	1288	1285	1289	599
35°	1174	1167	1160	1151	1154	735
45°	1018	1009	995	990	995	786
55°	828	820	802	798	804	739
65°	600	586	570	576	583	592
75°	343	330	324	288	276	361
85°	89	85	85	83	80	103
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1435.3	1435.3	1435.3	1435.3	1435.3
2.5°	1439.6	1433.9	1432.4	1429.6	1433.9
5°	1435.3	1429.6	1428.1	1425.3	1429.6
7.5°	1428.1	1422.4	1419.5	1416.6	1421.0
10°	1418.1	1412.3	1409.5	1406.6	1410.9
12.5°	1405.2	1398.0	1395.1	1392.2	1396.6
15°	1387.9	1383.6	1379.3	1375.0	1380.8
17.5°	1369.3	1363.5	1360.7	1357.8	1362.1
20°	1347.8	1343.4	1337.7	1336.3	1340.6
22.5°	1326.2	1317.6	1314.7	1310.4	1316.2
25°	1299.0	1291.8	1287.5	1284.6	1288.9
27.5°	1271.7	1264.5	1258.8	1255.9	1260.2
30°	1243.0	1234.4	1228.6	1222.9	1227.2
32.5°	1210.0	1201.4	1194.2	1188.4	1191.3
35°	1174.1	1166.9	1159.7	1151.1	1154.0
37.5°	1138.2	1131.0	1121.0	1113.8	1116.7
40°	1100.9	1093.7	1079.3	1075.0	1077.9
42.5°	1060.7	1052.1	1037.7	1033.4	1036.3
45°	1017.6	1009.0	994.7	990.4	994.7
47.5°	974.6	964.5	948.7	945.9	951.6
50°	927.2	917.2	901.4	899.9	902.8
52.5°	878.4	866.9	854.0	849.7	854.0
55°	828.2	819.6	802.3	798.0	803.8
57.5°	775.1	762.1	747.8	743.5	749.2
60°	716.2	704.7	688.9	687.5	697.6
62.5°	663.1	647.3	631.5	630.1	641.6
65°	600.0	585.6	569.8	575.6	582.7
67.5°	535.4	523.9	509.5	513.8	521.0
70°	473.7	459.3	449.3	446.4	440.6
72.5°	409.1	397.6	391.8	368.9	361.7
75°	343.0	330.1	324.4	288.5	275.6
77.5°	274.1	268.4	254.0	218.2	213.9
80°	212.4	209.6	178.0	180.8	185.2
82.5°	147.8	146.4	136.4	133.5	132.0
85°	89.0	84.7	84.7	83.2	80.4
87.5°	35.9	38.8	37.3	35.9	37.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)