

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: P184413

Luminaire Tested: **612EN-LD2-40-UNV-L840-CD1-U**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P184413
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-LD2-40-UNV-L840-CD1-U
Description: METALUX ENCOUNTER 600X1200 TROFFER

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

Summary

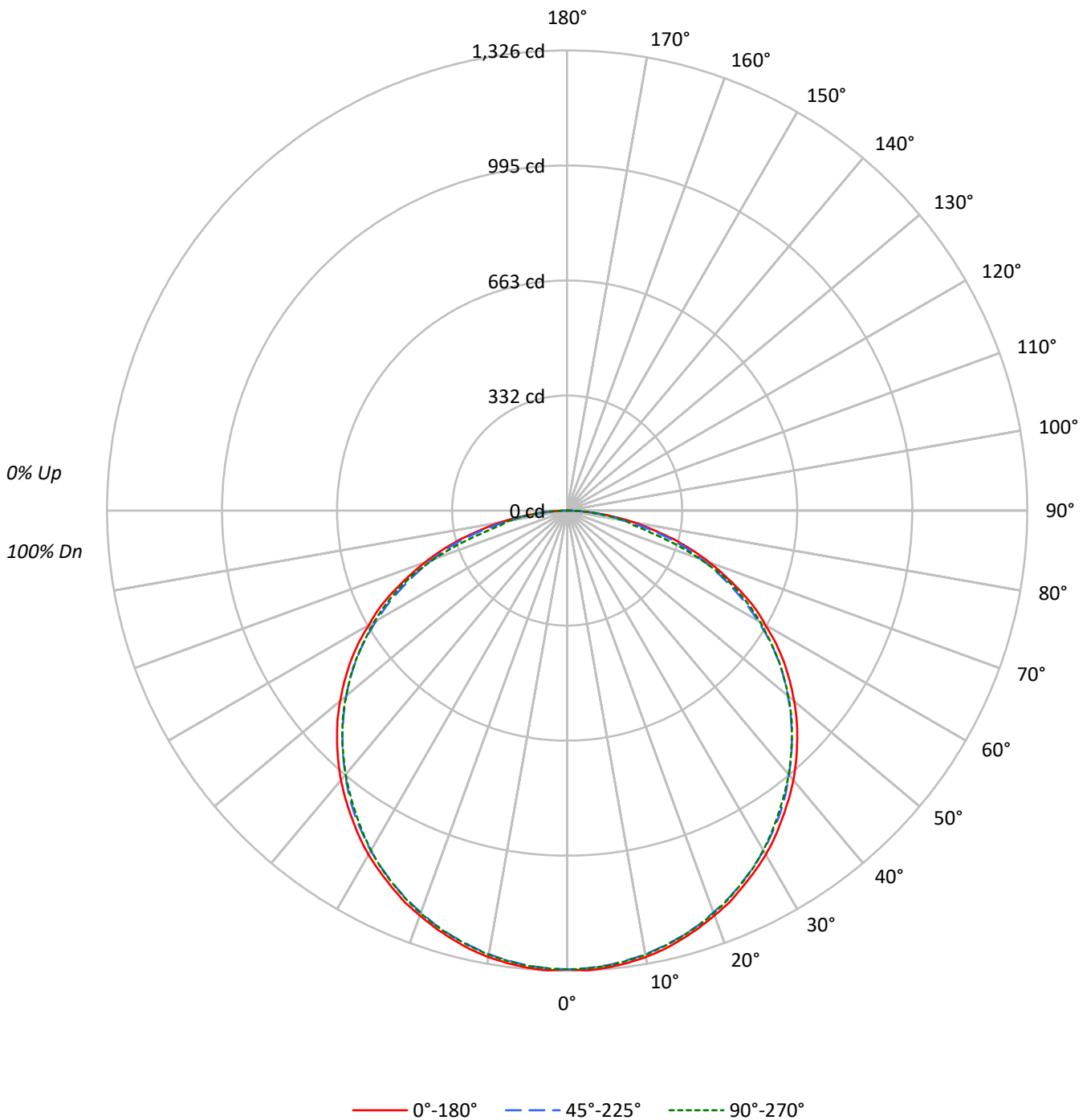
Lumens per Lamp: N/A
Luminaire Lumens: 4001.4 lumens
Efficiency: N/A
Efficacy: 118.0 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.27 / 1.4
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 33.9
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°	1779	1779	1779
5°	1786	1777	1779
10°	1785	1774	1776
15°	1781	1770	1772
20°	1778	1764	1768
25°	1776	1761	1763
30°	1779	1758	1756
35°	1776	1755	1746
40°	1781	1746	1744
45°	1784	1743	1743
50°	1788	1738	1741
55°	1790	1734	1737
60°	1776	1708	1729
65°	1760	1671	1709
70°	1716	1628	1597
75°	1643	1553	1320
80°	1516	1270	1322
85°	1266	1204	1142



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.1	3.1
10°-20°	359.1	9.0
20°-30°	547.8	13.7
30°-40°	669.2	16.7
40°-50°	710.8	17.8
50°-60°	664.6	16.6
60°-70°	527.7	13.2
70°-80°	307.8	7.7
80°-90°	89.3	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°	1031.9	25.8
0°-40°	1701.2	42.5
0°-60°	3076.5	76.9
0°-90°	4001.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4001.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1322	1322	1322	1322	1322	
5°	1322	1317	1316	1313	1317	126
15°	1278	1274	1271	1267	1272	361
25°	1196	1190	1186	1183	1187	552
35°	1082	1075	1068	1060	1063	677
45°	937	930	916	912	916	724
55°	763	755	739	735	740	681
65°	553	539	525	530	537	546
75°	316	304	299	266	254	333
85°	82	78	78	77	74	95
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1322.1	1322.1	1322.1	1322.1	1322.1
2.5°	1326.1	1320.8	1319.5	1316.9	1320.8
5°	1322.1	1316.9	1315.5	1312.9	1316.9
7.5°	1315.5	1310.2	1307.6	1305.0	1308.9
10°	1306.3	1301.0	1298.3	1295.7	1299.7
12.5°	1294.4	1287.8	1285.1	1282.5	1286.4
15°	1278.5	1274.5	1270.6	1266.6	1271.9
17.5°	1261.3	1256.0	1253.4	1250.7	1254.7
20°	1241.5	1237.5	1232.2	1230.9	1234.9
22.5°	1221.7	1213.7	1211.1	1207.1	1212.4
25°	1196.5	1189.9	1186.0	1183.3	1187.3
27.5°	1171.4	1164.8	1159.5	1156.9	1160.8
30°	1145.0	1137.0	1131.8	1126.5	1130.4
32.5°	1114.6	1106.6	1100.0	1094.7	1097.4
35°	1081.5	1074.9	1068.3	1060.4	1063.0
37.5°	1048.5	1041.8	1032.6	1026.0	1028.6
40°	1014.1	1007.5	994.3	990.3	992.9
42.5°	977.1	969.1	955.9	951.9	954.6
45°	937.4	929.5	916.2	912.3	916.2
47.5°	897.7	888.5	873.9	871.3	876.6
50°	854.1	844.9	830.3	829.0	831.6
52.5°	809.2	798.6	786.7	782.7	786.7
55°	762.9	754.9	739.1	735.1	740.4
57.5°	714.0	702.1	688.8	684.9	690.2
60°	659.8	649.2	634.6	633.3	642.6
62.5°	610.8	596.3	581.7	580.4	591.0
65°	552.7	539.4	524.9	530.2	536.8
67.5°	493.2	482.6	469.4	473.3	479.9
70°	436.3	423.1	413.8	411.2	405.9
72.5°	376.8	366.2	360.9	339.8	333.2
75°	316.0	304.1	298.8	265.8	253.9
77.5°	252.5	247.2	234.0	201.0	197.0
80°	195.7	193.0	163.9	166.6	170.6
82.5°	136.2	134.9	125.6	123.0	121.6
85°	82.0	78.0	78.0	76.7	74.0
87.5°	33.1	35.7	34.4	33.1	34.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)