

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: P184418

Luminaire Tested: **612EN-LD2-45-UNV-L840-CD1-U**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P184418
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-L840-CD1-U
Description: METALUX ENCOUNTER 600X1200 TROFFER

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

Summary

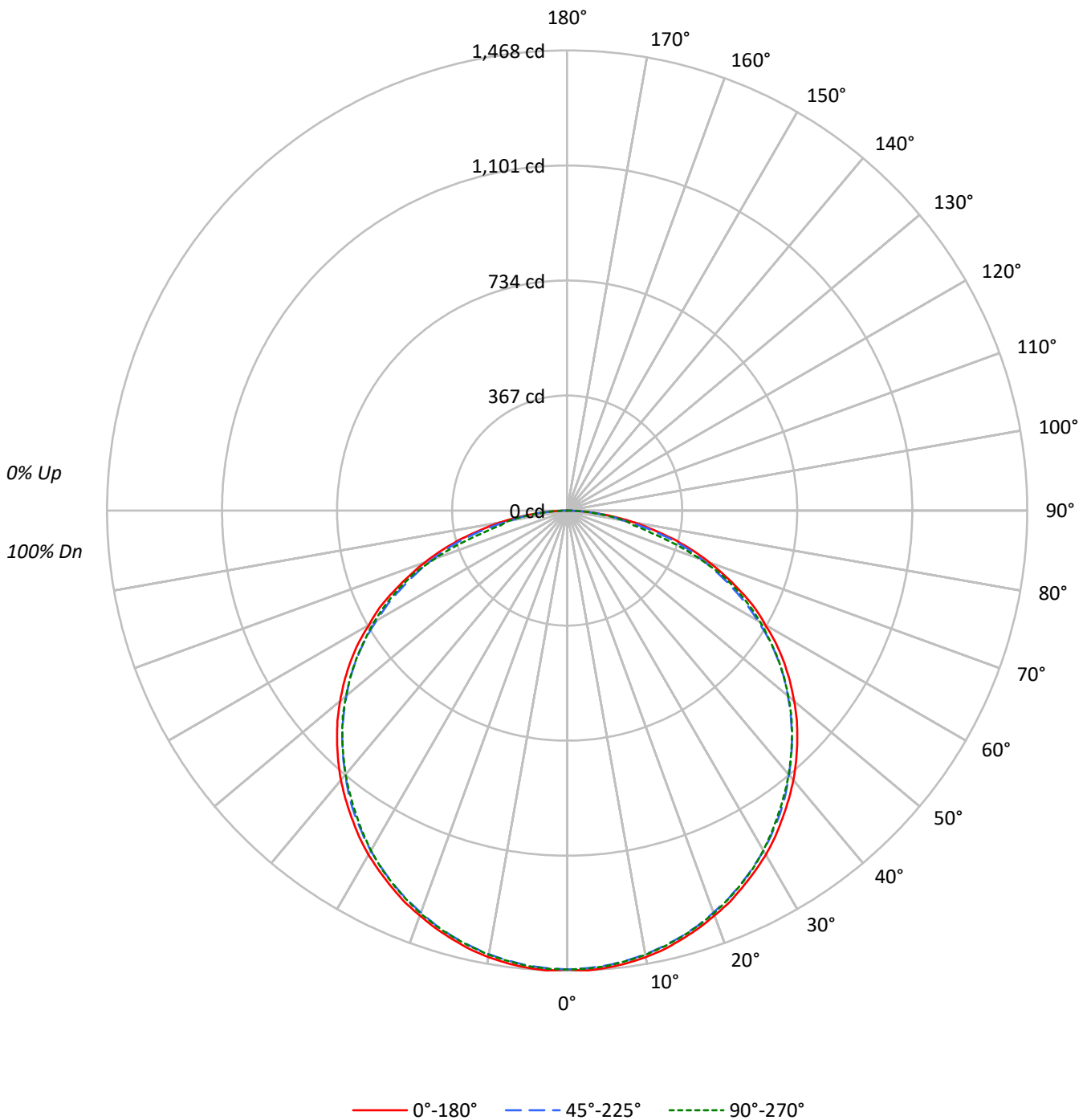
Lumens per Lamp: N/A
Luminaire Lumens: 4430.8 lumens
Efficiency: N/A
Efficacy: 116.6 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.27 / 1.4
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	1970	1970	1970
5°	1977	1967	1969
10°	1976	1964	1966
15°	1972	1960	1962
20°	1968	1954	1958
25°	1967	1950	1952
30°	1970	1947	1945
35°	1967	1943	1933
40°	1972	1934	1931
45°	1975	1931	1931
50°	1980	1924	1928
55°	1981	1920	1923
60°	1966	1891	1915
65°	1948	1850	1892
70°	1900	1803	1768
75°	1819	1720	1461
80°	1679	1406	1464
85°	1402	1334	1266



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.5	3.1
10°-20°	397.6	9.0
20°-30°	606.6	13.7
30°-40°	741.0	16.7
40°-50°	787.0	17.8
50°-60°	735.9	16.6
60°-70°	584.3	13.2
70°-80°	340.9	7.7
80°-90°	98.9	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°	1142.7	25.8
0°-40°	1883.7	42.5
0°-60°	3406.6	76.9
0°-90°	4430.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4430.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1464	1464	1464	1464	1464	
5°	1464	1458	1457	1454	1458	139
15°	1416	1411	1407	1402	1408	400
25°	1325	1318	1313	1310	1315	611
35°	1198	1190	1183	1174	1177	750
45°	1038	1029	1015	1010	1015	801
55°	845	836	818	814	820	754
65°	612	597	581	587	594	604
75°	350	337	331	294	281	368
85°	91	86	86	85	82	105
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1464.0	1464.0	1464.0	1464.0	1464.0
2.5°	1468.4	1462.5	1461.1	1458.2	1462.5
5°	1464.0	1458.2	1456.7	1453.8	1458.2
7.5°	1456.7	1450.8	1447.9	1445.0	1449.4
10°	1446.4	1440.6	1437.7	1434.7	1439.1
12.5°	1433.3	1425.9	1423.0	1420.1	1424.5
15°	1415.7	1411.3	1406.9	1402.5	1408.4
17.5°	1396.7	1390.8	1387.9	1385.0	1389.3
20°	1374.7	1370.3	1364.5	1363.0	1367.4
22.5°	1352.7	1344.0	1341.0	1336.6	1342.5
25°	1324.9	1317.6	1313.2	1310.3	1314.7
27.5°	1297.1	1289.8	1283.9	1281.0	1285.4
30°	1267.8	1259.0	1253.2	1247.3	1251.7
32.5°	1234.2	1225.4	1218.1	1212.2	1215.1
35°	1197.6	1190.2	1182.9	1174.1	1177.1
37.5°	1161.0	1153.6	1143.4	1136.1	1139.0
40°	1122.9	1115.6	1100.9	1096.5	1099.5
42.5°	1081.9	1073.1	1058.5	1054.1	1057.0
45°	1038.0	1029.2	1014.6	1010.2	1014.6
47.5°	994.1	983.8	967.7	964.8	970.6
50°	945.8	935.5	919.4	917.9	920.9
52.5°	896.0	884.3	871.1	866.7	871.1
55°	844.7	836.0	818.4	814.0	819.8
57.5°	790.6	777.4	762.7	758.4	764.2
60°	730.5	718.8	702.7	701.3	711.5
62.5°	676.4	660.3	644.2	642.7	654.4
65°	612.0	597.3	581.2	587.1	594.4
67.5°	546.1	534.4	519.7	524.1	531.4
70°	483.1	468.5	458.2	455.3	449.5
72.5°	417.2	405.5	399.7	376.3	368.9
75°	349.9	336.7	330.9	294.3	281.1
77.5°	279.6	273.8	259.1	222.5	218.1
80°	216.7	213.7	181.5	184.5	188.9
82.5°	150.8	149.3	139.1	136.2	134.7
85°	90.8	86.4	86.4	84.9	82.0
87.5°	36.6	39.5	38.1	36.6	38.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)