

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: P184427

Luminaire Tested: **612EN-LD2-54-UNV-L835-CD1-U**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P184427  
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-LD2-54-UNV-L835-CD1-U  
Description: METALUX ENCOUNTER 600X1200 TROFFER  
  
Light Source: EATON LED 3500K  
Ballast/Driver: OSRAM ELECTRONIC DRIVER

**Summary**

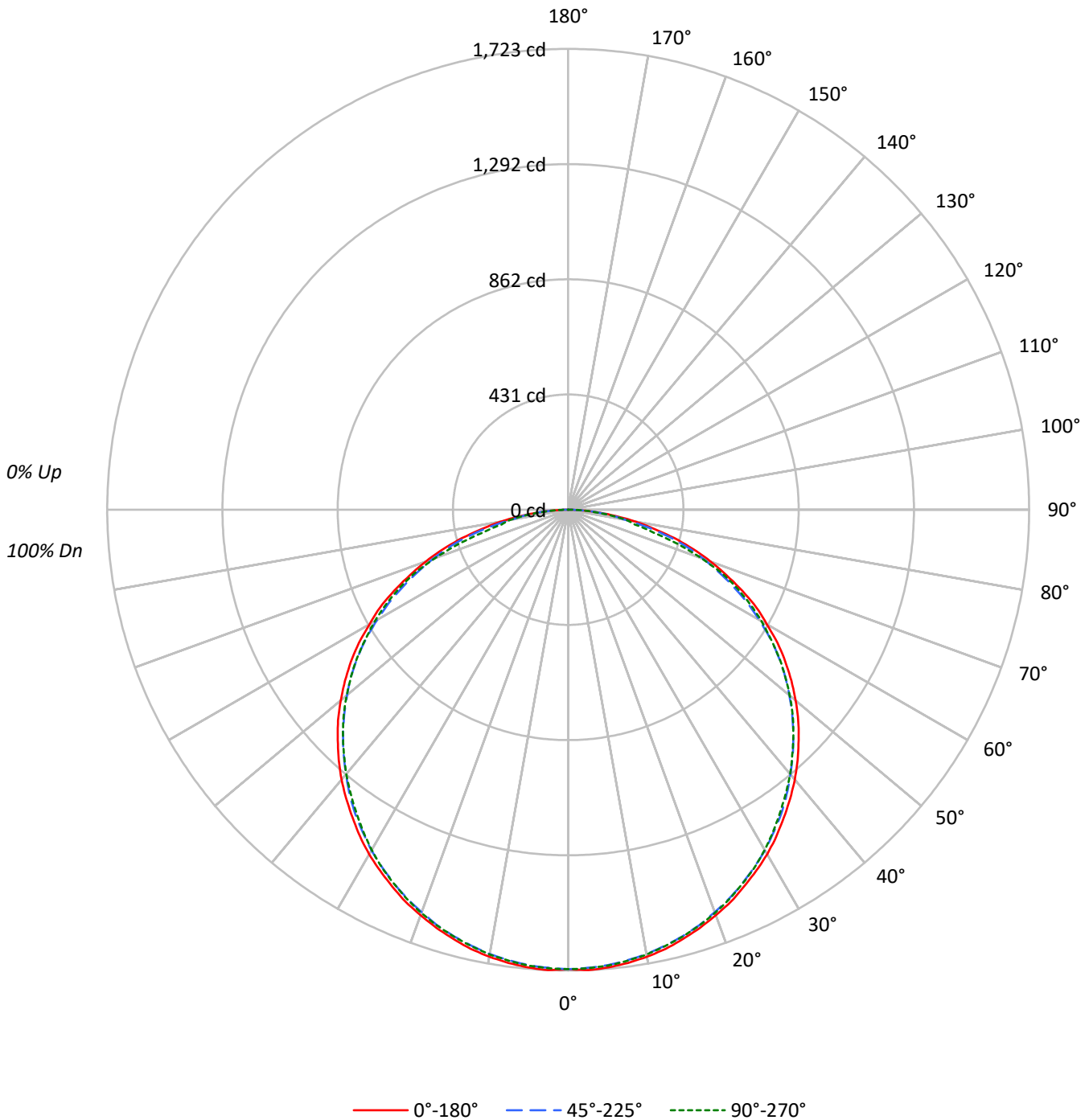
Lumens per Lamp: N/A  
Luminaire Lumens: 5199.2 lumens  
Efficiency: N/A  
Efficacy: 120.9 lumens/watt  
Spacing Criteria (0/90/45): 1.29 / 1.27 / 1.4  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 43  
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°	2311	2311	2311
5°	2320	2309	2311
10°	2319	2305	2307
15°	2314	2300	2302
20°	2310	2293	2297
25°	2308	2288	2290
30°	2311	2285	2282
35°	2308	2280	2269
40°	2314	2269	2266
45°	2318	2265	2265
50°	2323	2258	2262
55°	2325	2253	2257
60°	2307	2219	2247
65°	2286	2171	2221
70°	2230	2115	2075
75°	2135	2019	1714
80°	1970	1650	1717
85°	1644	1565	1485



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	162.5	3.1
10°-20°	466.5	9.0
20°-30°	711.8	13.7
30°-40°	869.5	16.7
40°-50°	923.5	17.8
50°-60°	863.5	16.6
60°-70°	685.7	13.2
70°-80°	400.0	7.7
80°-90°	116.0	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°	1340.9	25.8
0°-40°	2210.4	42.5
0°-60°	3997.5	76.9
0°-90°	5199.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5199.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1718	1718	1718	1718	1718	
5°	1718	1711	1709	1706	1711	163
15°	1661	1656	1651	1646	1653	469
25°	1555	1546	1541	1538	1543	717
35°	1405	1397	1388	1378	1381	880
45°	1218	1208	1190	1185	1190	940
55°	991	981	960	955	962	885
65°	718	701	682	689	698	709
75°	411	395	388	345	330	432
85°	106	101	101	100	96	123
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1717.9	1717.9	1717.9	1717.9	1717.9
2.5°	1723.1	1716.2	1714.5	1711.0	1716.2
5°	1717.9	1711.0	1709.3	1705.9	1711.0
7.5°	1709.3	1702.5	1699.0	1695.6	1700.7
10°	1697.3	1690.4	1687.0	1683.6	1688.7
12.5°	1681.8	1673.3	1669.8	1666.4	1671.5
15°	1661.2	1656.1	1650.9	1645.8	1652.6
17.5°	1638.9	1632.0	1628.6	1625.2	1630.3
20°	1613.1	1608.0	1601.1	1599.4	1604.5
22.5°	1587.4	1577.1	1573.6	1568.5	1575.3
25°	1554.7	1546.1	1541.0	1537.5	1542.7
27.5°	1522.1	1513.5	1506.6	1503.2	1508.3
30°	1487.7	1477.4	1470.5	1463.7	1468.8
32.5°	1448.2	1437.9	1429.3	1422.4	1425.9
35°	1405.3	1396.7	1388.1	1377.8	1381.2
37.5°	1362.3	1353.7	1341.7	1333.1	1336.5
40°	1317.6	1309.1	1291.9	1286.7	1290.2
42.5°	1269.5	1259.2	1242.1	1236.9	1240.3
45°	1218.0	1207.7	1190.5	1185.4	1190.5
47.5°	1166.5	1154.4	1135.5	1132.1	1139.0
50°	1109.8	1097.8	1078.9	1077.1	1080.6
52.5°	1051.4	1037.6	1022.2	1017.0	1022.2
55°	991.2	980.9	960.3	955.2	962.0
57.5°	927.7	912.2	895.0	889.9	896.8
60°	857.2	843.5	824.6	822.9	834.9
62.5°	793.7	774.8	755.9	754.2	767.9
65°	718.1	700.9	682.0	688.9	697.5
67.5°	640.8	627.0	609.9	615.0	623.6
70°	566.9	549.7	537.7	534.3	527.4
72.5°	489.6	475.9	469.0	441.5	432.9
75°	410.6	395.1	388.3	345.3	329.8
77.5°	328.1	321.3	304.1	261.1	256.0
80°	254.3	250.8	213.0	216.5	221.6
82.5°	176.9	175.2	163.2	159.8	158.0
85°	106.5	101.4	101.4	99.6	96.2
87.5°	42.9	46.4	44.7	42.9	44.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)