

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: P184429

Luminaire Tested: **612EN-LD2-54-UNV-L850-CD1-U**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P184429
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-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: 5771.1 lumens
Efficiency: N/A
Efficacy: 134.2 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

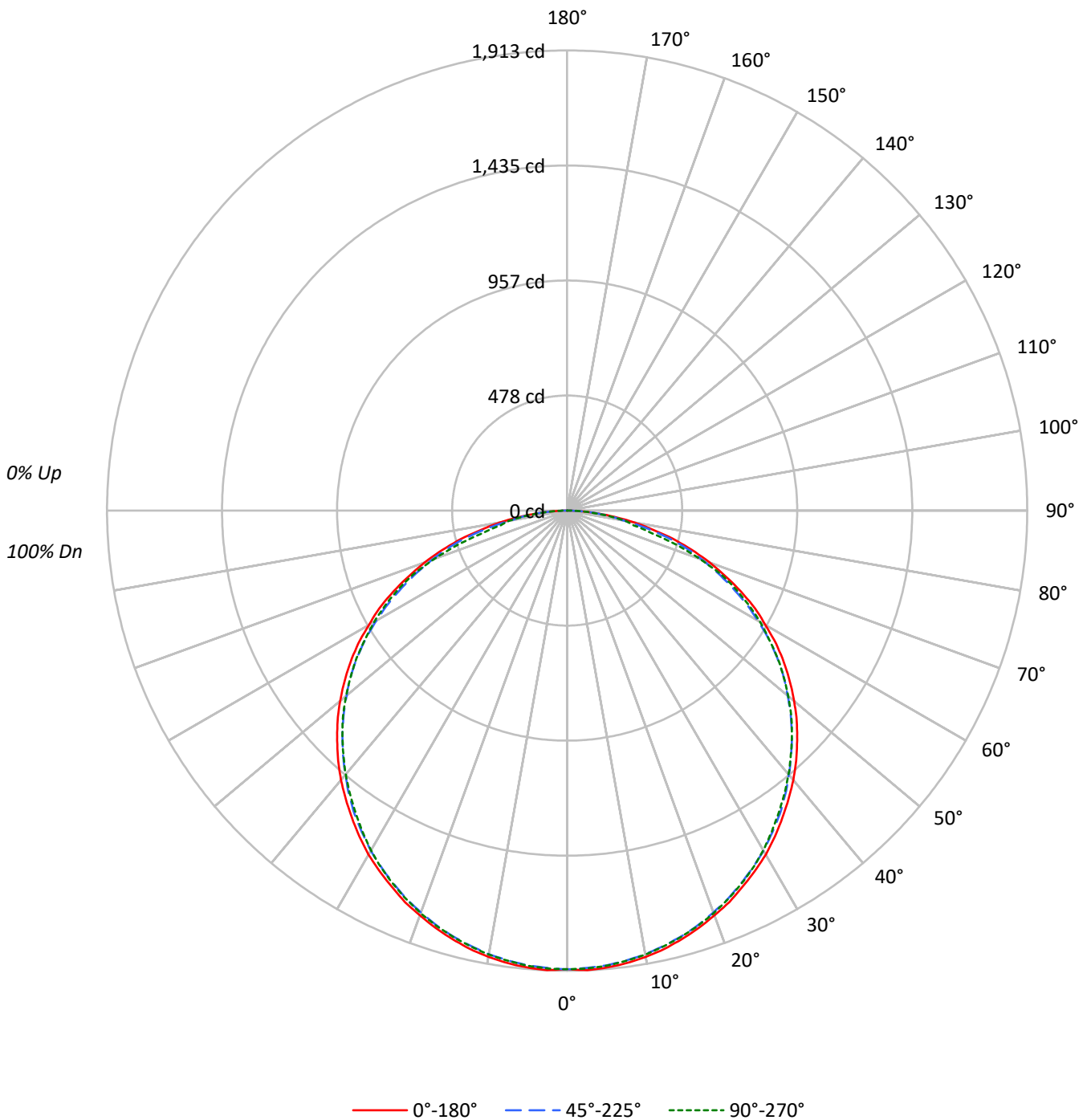
Input Watts (W): 43
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2566	2566	2566
5°	2576	2563	2565
10°	2574	2558	2561
15°	2569	2553	2555
20°	2564	2545	2550
25°	2562	2539	2542
30°	2566	2536	2533
35°	2562	2531	2518
40°	2569	2519	2515
45°	2573	2515	2515
50°	2579	2507	2511
55°	2581	2501	2505
60°	2560	2463	2494
65°	2538	2410	2465
70°	2476	2348	2303
75°	2369	2241	1903
80°	2187	1832	1906
85°	1825	1737	1649



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	180.4	3.1
10°-20°	517.9	9.0
20°-30°	790.1	13.7
30°-40°	965.2	16.7
40°-50°	1025.1	17.8
50°-60°	958.5	16.6
60°-70°	761.1	13.2
70°-80°	444.0	7.7
80°-90°	128.8	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°	1488.4	25.8
0°-40°	2453.5	42.5
0°-60°	4437.2	76.9
0°-90°	5771.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5771.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1907	1907	1907	1907	1907	
5°	1907	1899	1897	1894	1899	181
15°	1844	1838	1832	1827	1834	521
25°	1726	1716	1710	1707	1712	796
35°	1560	1550	1541	1529	1533	977
45°	1352	1340	1322	1316	1322	1044
55°	1100	1089	1066	1060	1068	982
65°	797	778	757	765	774	787
75°	456	439	431	383	366	480
85°	118	112	112	111	107	137
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1906.9	1906.9	1906.9	1906.9	1906.9
2.5°	1912.6	1905.0	1903.1	1899.3	1905.0
5°	1906.9	1899.3	1897.4	1893.5	1899.3
7.5°	1897.4	1889.7	1885.9	1882.1	1887.8
10°	1884.0	1876.4	1872.6	1868.8	1874.5
12.5°	1866.8	1857.3	1853.5	1849.7	1855.4
15°	1844.0	1838.2	1832.5	1826.8	1834.4
17.5°	1819.2	1811.5	1807.7	1803.9	1809.6
20°	1790.6	1784.9	1777.2	1775.3	1781.0
22.5°	1762.0	1750.5	1746.7	1741.0	1748.6
25°	1725.7	1716.2	1710.5	1706.7	1712.4
27.5°	1689.5	1680.0	1672.3	1668.5	1674.3
30°	1651.4	1639.9	1632.3	1624.7	1630.4
32.5°	1607.5	1596.1	1586.5	1578.9	1582.7
35°	1559.8	1550.3	1540.8	1529.3	1533.1
37.5°	1512.2	1502.6	1489.3	1479.7	1483.6
40°	1462.6	1453.1	1434.0	1428.3	1432.1
42.5°	1409.2	1397.8	1378.7	1373.0	1376.8
45°	1352.0	1340.5	1321.5	1315.8	1321.5
47.5°	1294.8	1281.4	1260.5	1256.6	1264.3
50°	1231.9	1218.5	1197.5	1195.6	1199.4
52.5°	1167.0	1151.8	1134.6	1128.9	1134.6
55°	1100.3	1088.8	1066.0	1060.2	1067.9
57.5°	1029.7	1012.6	993.5	987.8	995.4
60°	951.5	936.3	915.3	913.4	926.7
62.5°	881.0	860.0	839.0	837.1	852.4
65°	797.1	778.0	757.0	764.7	774.2
67.5°	711.3	696.0	676.9	682.7	692.2
70°	629.3	610.2	596.9	593.0	585.4
72.5°	543.5	528.2	520.6	490.1	480.5
75°	455.7	438.6	431.0	383.3	366.1
77.5°	364.2	356.6	337.5	289.8	284.1
80°	282.2	278.4	236.5	240.3	246.0
82.5°	196.4	194.5	181.2	177.3	175.4
85°	118.2	112.5	112.5	110.6	106.8
87.5°	47.7	51.5	49.6	47.7	49.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)