

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: P184422

Luminaire Tested: **612EN-LD2-49-UNV-L835-CD1-U**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P184422
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-LD2-49-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: 4757.1 lumens
Efficiency: N/A
Efficacy: 112.7 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

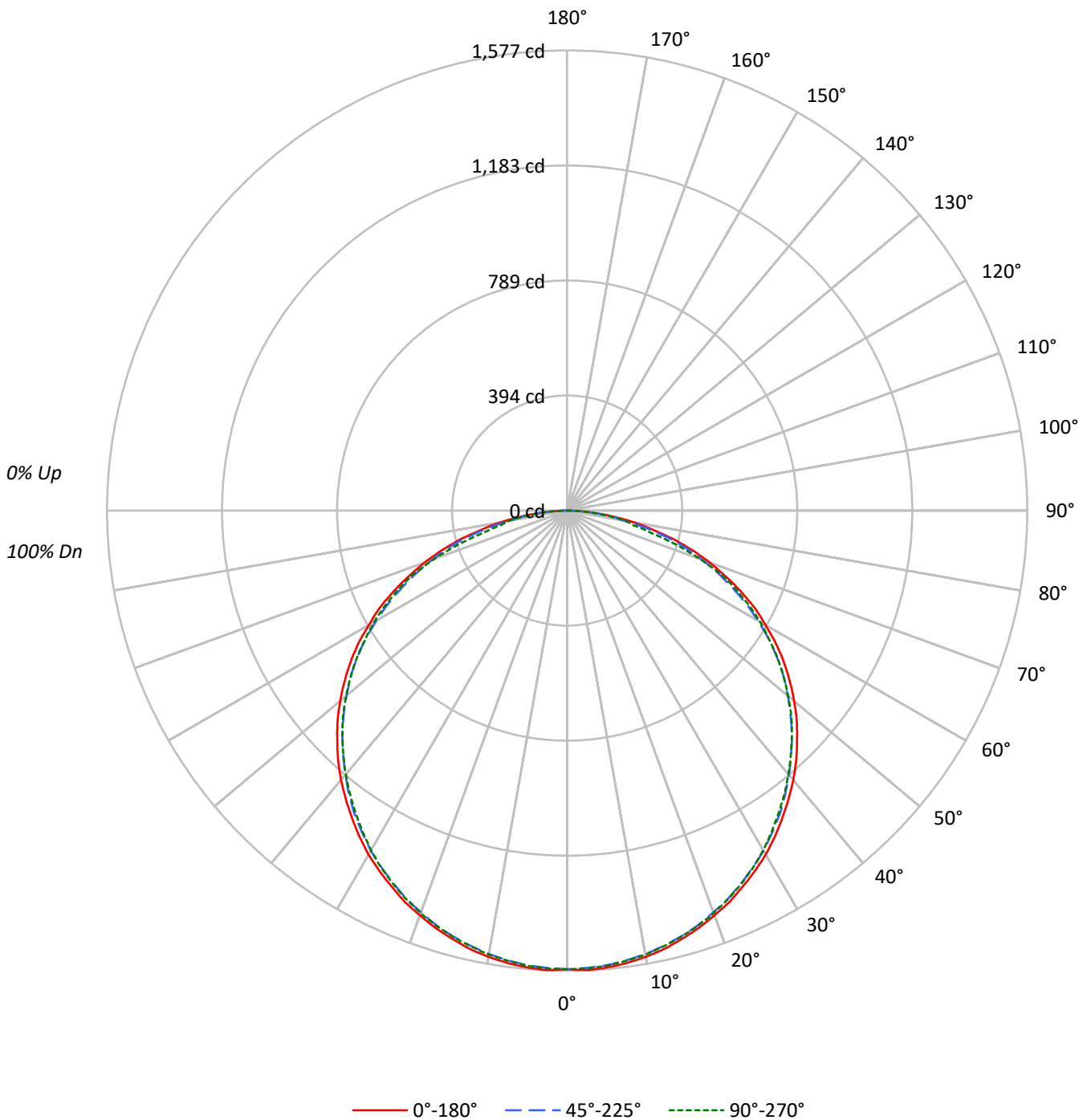
Input Watts (W): 42.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2115	2115	2115
5°	2123	2112	2115
10°	2122	2109	2111
15°	2117	2104	2106
20°	2113	2098	2102
25°	2112	2093	2095
30°	2115	2090	2088
35°	2112	2086	2076
40°	2118	2076	2073
45°	2120	2073	2073
50°	2125	2066	2070
55°	2128	2061	2065
60°	2111	2030	2056
65°	2092	1987	2032
70°	2041	1936	1899
75°	1953	1847	1569
80°	1802	1510	1571
85°	1505	1431	1359



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.7	3.1
10°-20°	426.9	9.0
20°-30°	651.3	13.7
30°-40°	795.6	16.7
40°-50°	845.0	17.8
50°-60°	790.1	16.6
60°-70°	627.4	13.2
70°-80°	366.0	7.7
80°-90°	106.2	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°	1226.9	25.8
0°-40°	2022.5	42.5
0°-60°	3657.6	76.9
0°-90°	4757.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4757.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1572	1572	1572	1572	1572	
5°	1572	1566	1564	1561	1566	149
15°	1520	1515	1510	1506	1512	429
25°	1422	1415	1410	1407	1412	656
35°	1286	1278	1270	1261	1264	805
45°	1114	1105	1089	1085	1089	860
55°	907	898	879	874	880	809
65°	657	641	624	630	638	649
75°	376	362	355	316	302	395
85°	98	93	93	91	88	113
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1571.8	1571.8	1571.8	1571.8	1571.8
2.5°	1576.6	1570.3	1568.7	1565.6	1570.3
5°	1571.8	1565.6	1564.0	1560.8	1565.6
7.5°	1564.0	1557.7	1554.6	1551.4	1556.1
10°	1553.0	1546.7	1543.6	1540.4	1545.1
12.5°	1538.8	1531.0	1527.8	1524.7	1529.4
15°	1520.0	1515.3	1510.5	1505.8	1512.1
17.5°	1499.5	1493.3	1490.1	1487.0	1491.7
20°	1476.0	1471.3	1465.0	1463.4	1468.1
22.5°	1452.4	1443.0	1439.8	1435.1	1441.4
25°	1422.5	1414.7	1409.9	1406.8	1411.5
27.5°	1392.7	1384.8	1378.5	1375.4	1380.1
30°	1361.2	1351.8	1345.5	1339.2	1343.9
32.5°	1325.1	1315.6	1307.8	1301.5	1304.6
35°	1285.8	1277.9	1270.1	1260.6	1263.8
37.5°	1246.5	1238.6	1227.6	1219.8	1222.9
40°	1205.6	1197.7	1182.0	1177.3	1180.5
42.5°	1161.6	1152.2	1136.4	1131.7	1134.9
45°	1114.4	1105.0	1089.3	1084.6	1089.3
47.5°	1067.3	1056.3	1039.0	1035.8	1042.1
50°	1015.4	1004.4	987.1	985.5	988.7
52.5°	962.0	949.4	935.3	930.5	935.3
55°	907.0	897.5	878.7	873.9	880.2
57.5°	848.8	834.7	818.9	814.2	820.5
60°	784.4	771.8	754.5	752.9	763.9
62.5°	726.2	708.9	691.6	690.0	702.6
65°	657.0	641.3	624.0	630.3	638.2
67.5°	586.3	573.7	558.0	562.7	570.6
70°	518.7	503.0	492.0	488.8	482.6
72.5°	448.0	435.4	429.1	404.0	396.1
75°	375.7	361.5	355.2	315.9	301.8
77.5°	300.2	293.9	278.2	238.9	234.2
80°	232.6	229.5	194.9	198.1	202.8
82.5°	161.9	160.3	149.3	146.2	144.6
85°	97.5	92.7	92.7	91.2	88.0
87.5°	39.3	42.4	40.9	39.3	40.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)