

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: P184479

Luminaire Tested: **66EN-LD2-43-UNV-L850-CD1-U**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P184479
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34466)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: 66EN-LD2-43-UNV-L850-CD1-U
Description: METALUX ENCOUNTER 600X600 TROFFER

Light Source: EATON LED 5000K
Ballast/Driver: OSRAM ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4674.7 lumens
Efficiency: N/A
Efficacy: 122.1 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.28 / 1.39
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

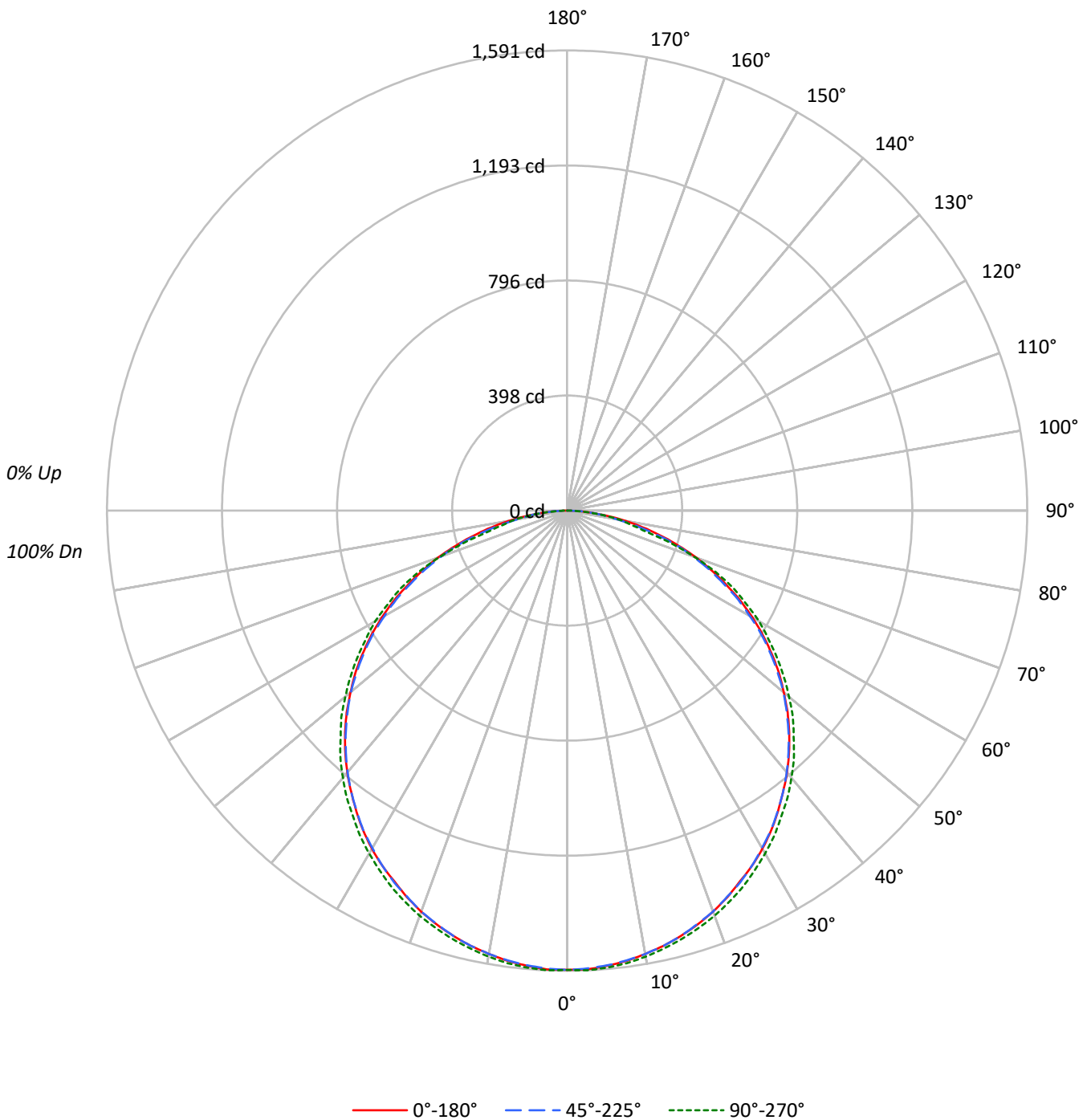
Input Watts (W): 38.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	104	99	95	106	101	97	94	97	94	91	93	91	88	90	87	85	83
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	77	70	63	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	46	57	50	45	55	49	45	42
6	69	56	47	40	68	55	46	40	53	45	40	51	45	39	50	44	39	37
7	64	51	42	36	63	50	41	35	48	41	35	47	40	35	45	39	35	33
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	38	30	26	37	30	25	36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4273	4273	4273
5°	4268	4264	4285
10°	4253	4253	4279
15°	4241	4241	4271
20°	4225	4225	4269
25°	4199	4208	4264
30°	4195	4185	4254
35°	4173	4168	4240
40°	4155	4149	4237
45°	4132	4120	4215
50°	4093	4087	4191
55°	4052	4022	4154
60°	3983	3923	4126
65°	3865	3796	4034
70°	3729	3644	3681
75°	3481	3318	2944
80°	3127	2715	2909
85°	2319	2368	2414



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.2	3.2
10°-20°	430.3	9.2
20°-30°	655.0	14.0
30°-40°	797.6	17.1
40°-50°	840.4	18.0
50°-60°	773.0	16.5
60°-70°	600.4	12.8
70°-80°	336.6	7.2
80°-90°	91.1	1.9
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°	1235.6	26.4
0°-40°	2033.2	43.5
0°-60°	3646.6	78.0
0°-90°	4674.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4674.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1588	1588	1588	1588	1588	
5°	1580	1578	1578	1583	1586	150
15°	1522	1521	1522	1528	1533	430
25°	1414	1414	1417	1425	1436	653
35°	1270	1267	1269	1280	1291	795
45°	1086	1084	1083	1095	1108	837
55°	864	860	857	870	886	771
65°	607	602	596	613	634	602
75°	335	330	319	293	283	355
85°	75	75	77	77	78	95
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1587.9	1587.9	1587.9	1587.9	1587.9
2.5°	1587.9	1586.3	1584.8	1587.9	1591.0
5°	1580.1	1578.5	1578.5	1583.2	1586.3
7.5°	1570.7	1569.1	1569.1	1573.8	1578.5
10°	1556.6	1556.6	1556.6	1561.3	1566.0
12.5°	1541.0	1539.4	1541.0	1545.7	1550.4
15°	1522.2	1520.6	1522.2	1528.5	1533.2
17.5°	1500.3	1497.2	1498.7	1506.6	1512.8
20°	1475.3	1473.7	1475.3	1483.1	1490.9
22.5°	1447.1	1445.5	1445.5	1454.9	1464.3
25°	1414.3	1414.3	1417.4	1425.2	1436.2
27.5°	1384.5	1381.4	1384.5	1393.9	1403.3
30°	1350.1	1347.0	1347.0	1359.5	1368.9
32.5°	1312.6	1307.9	1311.0	1320.4	1332.9
35°	1270.3	1267.2	1268.8	1279.7	1290.7
37.5°	1226.5	1225.0	1226.5	1237.5	1251.6
40°	1182.7	1179.6	1181.2	1193.7	1206.2
42.5°	1135.8	1134.2	1132.7	1145.2	1160.8
45°	1085.7	1084.2	1082.6	1095.1	1107.6
47.5°	1034.1	1031.0	1029.4	1041.9	1059.1
50°	977.8	977.8	976.2	985.6	1001.2
52.5°	923.0	919.9	916.8	927.7	944.9
55°	863.6	860.4	857.3	869.8	885.5
57.5°	802.6	799.4	796.3	805.7	824.5
60°	740.0	736.9	729.0	744.7	766.6
62.5°	675.8	669.6	666.5	680.5	697.7
65°	607.0	602.3	596.1	613.3	633.6
67.5°	541.3	533.5	530.3	542.9	556.9
70°	474.0	467.8	463.1	464.6	467.8
72.5°	403.6	400.5	395.8	381.7	378.6
75°	334.8	330.1	319.1	292.6	283.2
77.5°	269.1	266.0	244.1	222.2	225.3
80°	201.8	198.7	175.2	179.9	187.7
82.5°	140.8	133.0	129.8	128.3	133.0
85°	75.1	75.1	76.7	76.7	78.2
87.5°	31.3	31.3	34.4	34.4	34.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)