

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: P184473

Luminaire Tested: **66EN-LD2-39-UNV-L840-CD1-U**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P184473  
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-LD2-39-UNV-L840-CD1-U  
Description: METALUX ENCOUNTER 600X600 TROFFER  
  
Light Source: EATON LED 4000K  
Ballast/Driver: OSRAM ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3816.5 lumens  
Efficiency: N/A  
Efficacy: 114.6 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

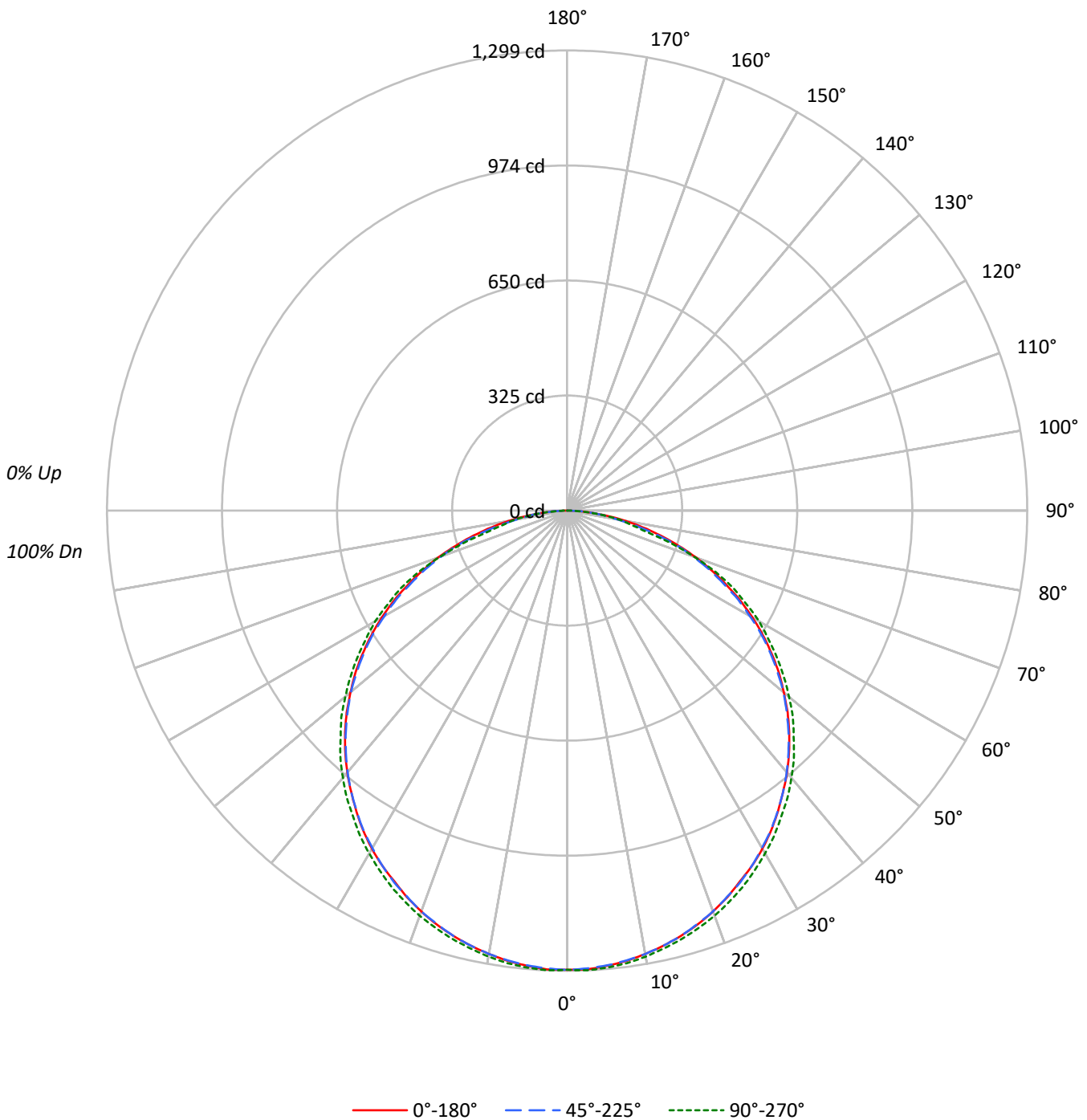
Input Watts (W): 33.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	3489	3489	3489
5°	3485	3481	3498
10°	3473	3473	3493
15°	3462	3462	3487
20°	3449	3449	3486
25°	3428	3436	3481
30°	3425	3417	3473
35°	3407	3403	3461
40°	3392	3387	3459
45°	3373	3364	3441
50°	3342	3337	3422
55°	3308	3284	3392
60°	3251	3203	3368
65°	3156	3098	3294
70°	3045	2975	3005
75°	2842	2709	2404
80°	2554	2218	2376
85°	1893	1933	1973



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	122.6	3.2
10°-20°	351.3	9.2
20°-30°	534.8	14.0
30°-40°	651.2	17.1
40°-50°	686.1	18.0
50°-60°	631.1	16.5
60°-70°	490.2	12.8
70°-80°	274.8	7.2
80°-90°	74.4	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°	1008.8	26.4
0°-40°	1660.0	43.5
0°-60°	2977.1	78.0
0°-90°	3816.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3816.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1296	1296	1296	1296	1296	
5°	1290	1289	1289	1293	1295	123
15°	1243	1242	1243	1248	1252	351
25°	1155	1155	1157	1164	1172	533
35°	1037	1035	1036	1045	1054	649
45°	886	885	884	894	904	684
55°	705	702	700	710	723	630
65°	496	492	487	501	517	491
75°	273	270	261	239	231	290
85°	61	61	63	63	64	77
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1296.4	1296.4	1296.4	1296.4	1296.4
2.5°	1296.4	1295.1	1293.8	1296.4	1299.0
5°	1290.0	1288.7	1288.7	1292.6	1295.1
7.5°	1282.4	1281.1	1281.1	1284.9	1288.7
10°	1270.9	1270.9	1270.9	1274.7	1278.5
12.5°	1258.1	1256.8	1258.1	1261.9	1265.7
15°	1242.8	1241.5	1242.8	1247.9	1251.7
17.5°	1224.9	1222.3	1223.6	1230.0	1235.1
20°	1204.4	1203.2	1204.4	1210.8	1217.2
22.5°	1181.4	1180.2	1180.2	1187.8	1195.5
25°	1154.6	1154.6	1157.2	1163.6	1172.5
27.5°	1130.4	1127.8	1130.4	1138.0	1145.7
30°	1102.3	1099.7	1099.7	1109.9	1117.6
32.5°	1071.6	1067.8	1070.3	1078.0	1088.2
35°	1037.1	1034.6	1035.8	1044.8	1053.7
37.5°	1001.4	1000.1	1001.4	1010.3	1021.8
40°	965.6	963.0	964.3	974.5	984.8
42.5°	927.3	926.0	924.7	934.9	947.7
45°	886.4	885.1	883.9	894.1	904.3
47.5°	844.3	841.7	840.4	850.6	864.7
50°	798.3	798.3	797.0	804.7	817.4
52.5°	753.6	751.0	748.5	757.4	771.5
55°	705.0	702.5	699.9	710.1	722.9
57.5°	655.2	652.7	650.1	657.8	673.1
60°	604.1	601.6	595.2	608.0	625.8
62.5°	551.8	546.7	544.1	555.6	569.6
65°	495.6	491.7	486.6	500.7	517.3
67.5°	441.9	435.5	433.0	443.2	454.7
70°	387.0	381.9	378.1	379.3	381.9
72.5°	329.5	327.0	323.1	311.6	309.1
75°	273.3	269.5	260.6	238.8	231.2
77.5°	219.7	217.1	199.2	181.4	183.9
80°	164.8	162.2	143.1	146.9	153.3
82.5°	115.0	108.6	106.0	104.7	108.6
85°	61.3	61.3	62.6	62.6	63.9
87.5°	25.5	25.5	28.1	28.1	28.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)