

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: P184474

Luminaire Tested: **66EN-LD2-39-UNV-L850-CD1-U**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P184474  
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-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: 4153.2 lumens  
Efficiency: N/A  
Efficacy: 124.7 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

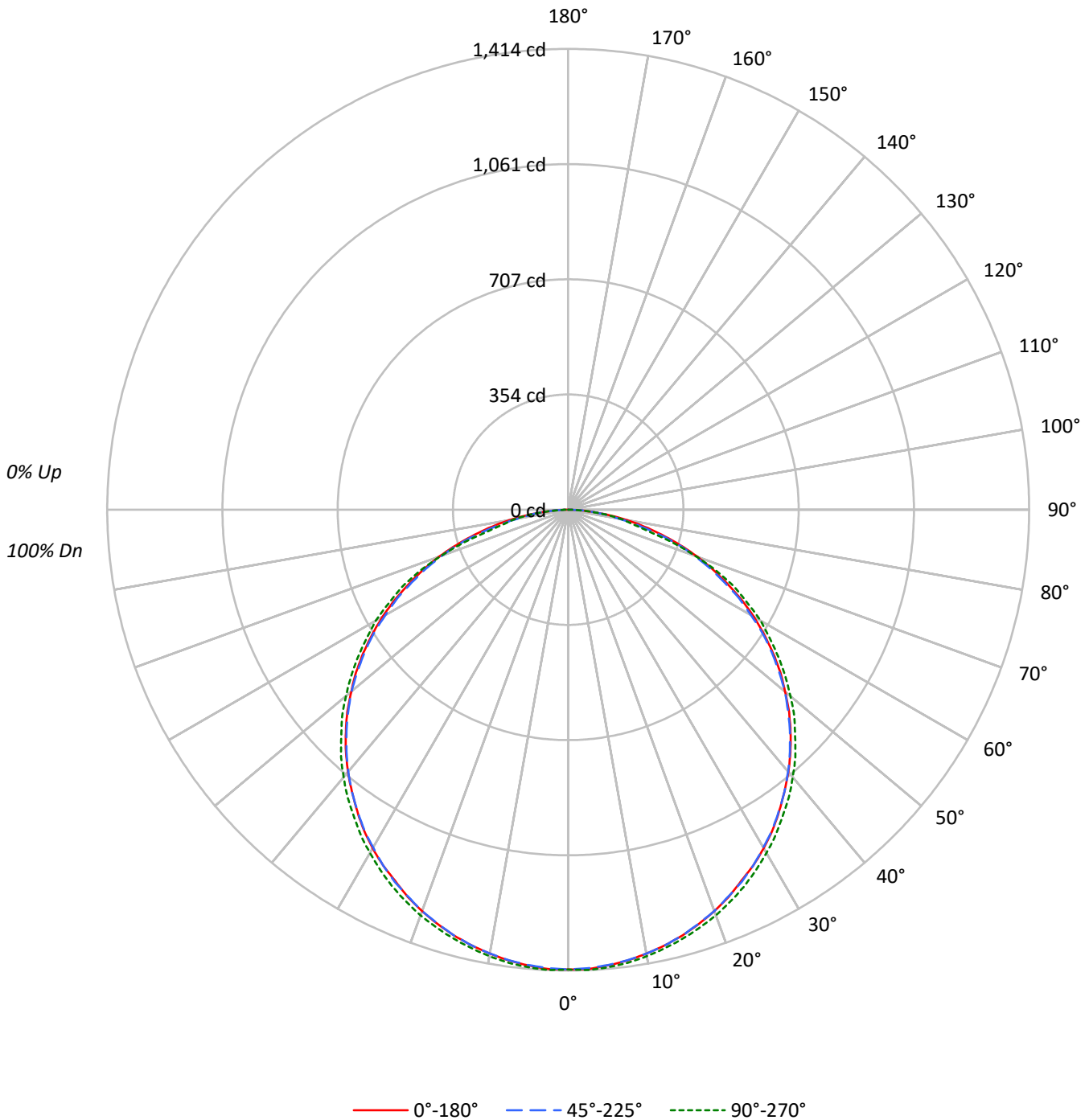
Input Watts (W): 33.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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					100			
1	109	104	99	95	106	101	97	94	97	94	91	93	91	88	90	87	85	83					83			
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69					69			
3	90	79	71	64	87	77	70	63	74	68	62	72	66	61	69	64	60	58					58			
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49					49			
5	75	62	53	46	73	61	52	46	59	51	46	57	50	45	55	49	45	42					42			
6	69	56	47	40	68	55	46	40	53	45	40	51	45	39	50	44	39	37					37			
7	64	51	42	36	63	50	41	35	48	41	35	47	40	35	45	39	35	33					33			
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29					29			
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26					26			
10	52	39	31	26	51	39	31	26	38	30	26	37	30	25	36	30	25	24					24			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	3796	3796	3796
5°	3792	3788	3807
10°	3779	3779	3802
15°	3768	3768	3795
20°	3753	3753	3793
25°	3731	3739	3789
30°	3727	3718	3779
35°	3708	3703	3767
40°	3691	3686	3764
45°	3671	3660	3745
50°	3637	3631	3724
55°	3599	3574	3691
60°	3538	3486	3666
65°	3434	3372	3584
70°	3314	3237	3270
75°	3092	2948	2616
80°	2779	2413	2585
85°	2059	2103	2146



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	133.5	3.2
10°-20°	382.3	9.2
20°-30°	582.0	14.0
30°-40°	708.7	17.1
40°-50°	746.6	18.0
50°-60°	686.7	16.5
60°-70°	533.5	12.8
70°-80°	299.0	7.2
80°-90°	81.0	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°	1097.8	26.4
0°-40°	1806.4	43.5
0°-60°	3239.8	78.0
0°-90°	4153.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4153.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1411	1411	1411	1411	1411	
5°	1404	1402	1402	1407	1409	133
15°	1352	1351	1352	1358	1362	382
25°	1256	1256	1259	1266	1276	580
35°	1129	1126	1127	1137	1147	706
45°	965	963	962	973	984	744
55°	767	764	762	773	787	685
65°	539	535	530	545	563	535
75°	297	293	284	260	252	315
85°	67	67	68	68	70	84
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1410.8	1410.8	1410.8	1410.8	1410.8
2.5°	1410.8	1409.4	1408.0	1410.8	1413.6
5°	1403.8	1402.4	1402.4	1406.6	1409.4
7.5°	1395.5	1394.1	1394.1	1398.3	1402.4
10°	1383.0	1383.0	1383.0	1387.2	1391.3
12.5°	1369.1	1367.7	1369.1	1373.3	1377.4
15°	1352.4	1351.0	1352.4	1358.0	1362.1
17.5°	1333.0	1330.2	1331.6	1338.5	1344.1
20°	1310.7	1309.3	1310.7	1317.7	1324.6
22.5°	1285.7	1284.3	1284.3	1292.6	1301.0
25°	1256.5	1256.5	1259.3	1266.2	1276.0
27.5°	1230.1	1227.3	1230.1	1238.4	1246.8
30°	1199.5	1196.7	1196.7	1207.9	1216.2
32.5°	1166.2	1162.0	1164.8	1173.1	1184.2
35°	1128.6	1125.9	1127.2	1137.0	1146.7
37.5°	1089.7	1088.3	1089.7	1099.4	1112.0
40°	1050.8	1048.0	1049.4	1060.5	1071.6
42.5°	1009.1	1007.7	1006.3	1017.4	1031.3
45°	964.6	963.2	961.8	973.0	984.1
47.5°	918.8	916.0	914.6	925.7	941.0
50°	868.7	868.7	867.3	875.7	889.6
52.5°	820.1	817.3	814.5	824.2	839.5
55°	767.2	764.5	761.7	772.8	786.7
57.5°	713.0	710.3	707.5	715.8	732.5
60°	657.4	654.7	647.7	661.6	681.1
62.5°	600.5	594.9	592.1	604.6	619.9
65°	539.3	535.1	529.6	544.9	562.9
67.5°	480.9	474.0	471.2	482.3	494.8
70°	421.2	415.6	411.4	412.8	415.6
72.5°	358.6	355.8	351.7	339.1	336.4
75°	297.4	293.3	283.5	259.9	251.6
77.5°	239.1	236.3	216.8	197.4	200.2
80°	179.3	176.5	155.7	159.8	166.8
82.5°	125.1	118.1	115.4	114.0	118.1
85°	66.7	66.7	68.1	68.1	69.5
87.5°	27.8	27.8	30.6	30.6	30.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)