

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: P184558

Luminaire Tested: **36EN-LD2-39-UNV-L840-CD1-U**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P184558  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34514)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: 36EN-LD2-39-UNV-L840-CD1-U  
Description: METALUX ENCOUNTER 300X600 TROFFER  
  
Light Source: EATON LED 4000K  
Ballast/Driver: OSRAM ELECTRONIC DRIVER

**Summary**

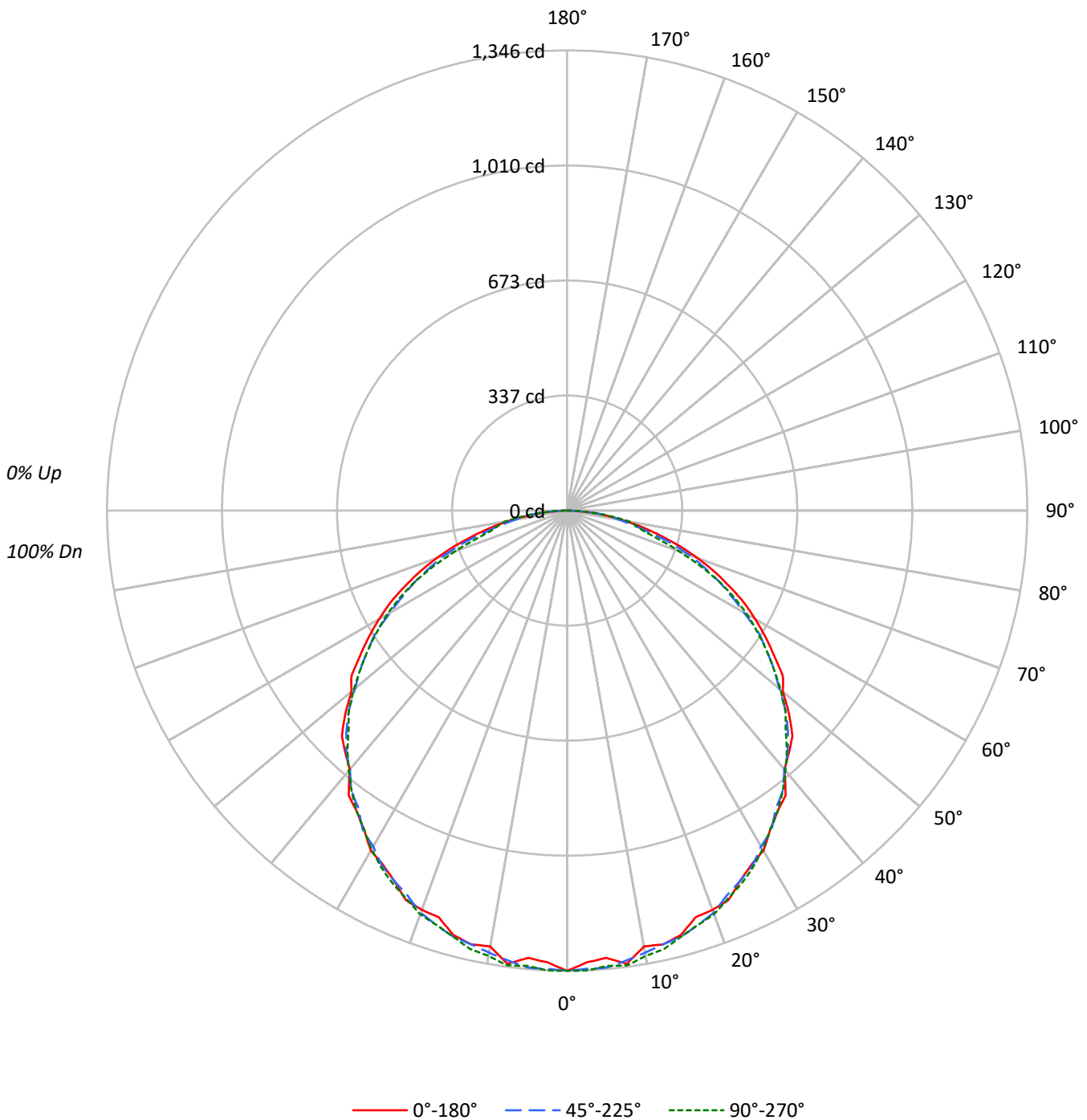
Lumens per Lamp: N/A  
Luminaire Lumens: 3914.1 lumens  
Efficiency: N/A  
Efficacy: 110.6 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.38  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 35.4  
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	90	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	69	60	54	66	59	53	64	57	52	61	56	52	49
5	75	62	53	46	73	61	53	46	59	52	46	57	50	45	55	49	45	43
6	70	56	47	40	68	55	47	40	53	46	40	52	45	40	50	44	39	37
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	46	39	35	33
8	60	46	38	32	58	46	37	32	44	37	31	43	36	31	42	36	31	29
9	56	42	34	29	55	42	34	28	41	33	28	40	33	28	39	32	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	25	24

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

	0°	45°	90°
0°	7245	7245	7245
5°	7095	7247	7222
10°	7074	7177	7229
15°	7160	7186	7186
20°	7117	7171	7198
25°	7100	7100	7156
30°	7137	7050	7108
35°	7051	6989	7051
40°	6945	6945	6978
45°	7094	6951	6878
50°	6897	6779	6818
55°	6934	6670	6670
60°	6839	6435	6536
65°	6654	6234	6234
70°	6370	6000	5481
75°	5872	5286	4795
80°	5253	4813	5690
85°	4360	4940	4650



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	127.2	3.3
10°-20°	363.5	9.3
20°-30°	553.3	14.1
30°-40°	670.2	17.1
40°-50°	703.0	18.0
50°-60°	643.0	16.4
60°-70°	491.4	12.6
70°-80°	276.2	7.1
80°-90°	86.2	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°	1044.0	26.7
0°-40°	1714.2	43.8
0°-60°	3060.3	78.2
0°-90°	3914.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3914.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1346	1346	1346	1346	1346	
5°	1313	1337	1342	1351	1337	126
15°	1285	1285	1290	1290	1290	360
25°	1196	1200	1196	1205	1205	553
35°	1073	1068	1064	1073	1073	673
45°	932	918	913	904	904	710
55°	739	730	711	711	711	660
65°	522	508	490	485	490	518
75°	282	273	254	235	231	300
85°	71	71	80	75	75	82
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1346.2	1346.2	1346.2	1346.2	1346.2
2.5°	1322.7	1341.5	1341.5	1350.9	1346.2
5°	1313.2	1336.8	1341.5	1350.9	1336.8
7.5°	1336.8	1332.1	1327.4	1336.8	1341.5
10°	1294.4	1313.2	1313.2	1336.8	1322.7
12.5°	1299.1	1303.8	1299.1	1299.1	1313.2
15°	1285.0	1285.0	1289.7	1289.7	1289.7
17.5°	1247.4	1266.2	1270.9	1275.6	1270.9
20°	1242.6	1247.4	1252.1	1256.8	1256.8
22.5°	1233.2	1223.8	1219.1	1237.9	1228.5
25°	1195.6	1200.3	1195.6	1205.0	1205.0
27.5°	1167.3	1167.3	1172.0	1167.3	1176.7
30°	1148.5	1143.8	1134.4	1143.8	1143.8
32.5°	1106.1	1110.8	1110.8	1106.1	1106.1
35°	1073.2	1068.5	1063.8	1073.2	1073.2
37.5°	1049.7	1026.1	1035.5	1030.8	1035.5
40°	988.5	1002.6	988.5	988.5	993.2
42.5°	960.2	955.5	955.5	950.8	950.8
45°	932.0	917.9	913.2	903.7	903.7
47.5°	880.2	880.2	866.1	856.7	866.1
50°	823.7	828.4	809.6	804.9	814.3
52.5°	795.5	781.4	762.5	767.2	762.5
55°	739.0	729.6	710.8	710.8	710.8
57.5°	687.2	682.5	663.7	659.0	659.0
60°	635.4	626.0	597.8	602.5	607.2
62.5°	583.7	569.5	541.3	550.7	550.7
65°	522.5	508.4	489.5	484.8	489.5
67.5°	466.0	447.2	433.0	428.3	418.9
70°	404.8	395.4	381.3	353.0	348.3
72.5°	343.6	329.5	320.1	287.1	282.4
75°	282.4	273.0	254.2	235.3	230.6
77.5°	225.9	221.2	197.7	197.7	207.1
80°	169.5	164.7	155.3	174.2	183.6
82.5°	117.7	113.0	127.1	131.8	131.8
85°	70.6	70.6	80.0	75.3	75.3
87.5°	28.2	32.9	32.9	37.7	37.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)