

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: P184502

Luminaire Tested: **312EN-LD2-38-UNV-L835-CD1-U**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P184502  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34485)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: 312EN-LD2-38-UNV-L835-CD1-U  
Description: METALUX ENCOUNTER 300X1200 TROFFER  
  
Light Source: EATON LED 3500K  
Ballast/Driver: OSRAM ELECTRONIC DRIVER

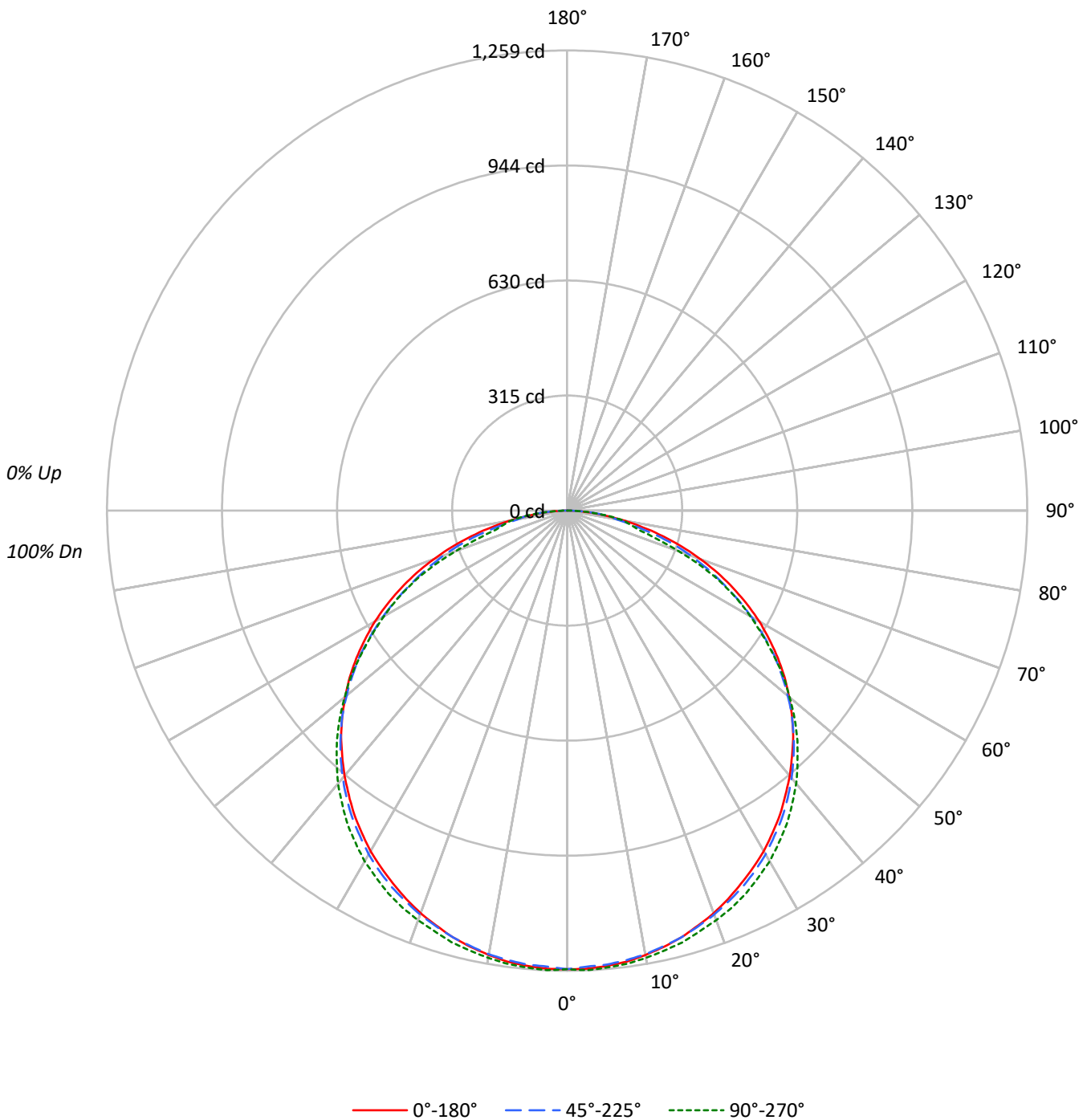
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3731.1 lumens  
Efficiency: N/A  
Efficacy: 113.8 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.31 / 1.41  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 32.8  
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	77	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	77	70	64	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	51	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	41	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	28	55	42	34	28	41	33	28	40	33	28	39	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°	3376	3376	3376
5°	3378	3368	3389
10°	3374	3368	3395
15°	3367	3367	3406
20°	3357	3369	3415
25°	3343	3373	3433
30°	3343	3374	3443
35°	3336	3369	3441
40°	3327	3355	3426
45°	3329	3336	3390
50°	3316	3300	3325
55°	3302	3245	3236
60°	3268	3138	3117
65°	3188	2983	2958
70°	3054	2832	2547
75°	2823	2509	2091
80°	2462	2118	2399
85°	1862	2235	2174



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	118.9	3.2
10°-20°	342.3	9.2
20°-30°	525.1	14.1
30°-40°	643.0	17.2
40°-50°	678.0	18.2
50°-60°	619.3	16.6
60°-70°	470.5	12.6
70°-80°	256.9	6.9
80°-90°	77.1	2.1
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°	986.3	26.4
0°-40°	1629.4	43.7
0°-60°	2926.6	78.4
0°-90°	3731.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3731.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1255	1255	1255	1255	1255	
5°	1251	1251	1247	1253	1255	119
15°	1208	1208	1208	1218	1222	341
25°	1126	1128	1136	1150	1156	520
35°	1015	1015	1026	1040	1048	635
45°	875	875	877	885	891	674
55°	704	702	692	686	690	628
65°	501	491	468	464	464	495
75°	272	261	241	207	201	287
85°	60	64	72	70	70	74
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1254.7	1254.7	1254.7	1254.7	1254.7
2.5°	1254.7	1254.7	1248.7	1254.7	1258.7
5°	1250.7	1250.7	1246.7	1252.7	1254.7
7.5°	1244.7	1244.7	1240.6	1246.7	1250.7
10°	1234.6	1234.6	1232.6	1238.6	1242.6
12.5°	1222.5	1222.5	1220.5	1228.6	1232.6
15°	1208.5	1208.5	1208.5	1218.5	1222.5
17.5°	1190.4	1192.4	1192.4	1202.4	1206.5
20°	1172.3	1174.3	1176.3	1188.4	1192.4
22.5°	1150.2	1150.2	1156.2	1170.3	1176.3
25°	1126.0	1128.0	1136.1	1150.2	1156.2
27.5°	1101.9	1103.9	1112.0	1126.0	1132.1
30°	1075.8	1077.8	1085.8	1099.9	1107.9
32.5°	1045.6	1047.6	1055.6	1071.7	1077.8
35°	1015.4	1015.4	1025.5	1039.6	1047.6
37.5°	981.3	983.3	991.3	1005.4	1011.4
40°	947.1	949.1	955.1	967.2	975.2
42.5°	910.9	912.9	916.9	927.0	933.0
45°	874.7	874.7	876.7	884.7	890.8
47.5°	834.5	834.5	834.5	838.5	844.5
50°	792.2	792.2	788.2	790.2	794.3
52.5°	750.0	748.0	740.0	740.0	746.0
55°	703.8	701.8	691.7	685.7	689.7
57.5°	655.5	651.5	637.4	631.4	633.4
60°	607.2	601.2	583.1	575.1	579.1
62.5°	555.0	548.9	526.8	520.8	524.8
65°	500.7	490.6	468.5	464.5	464.5
67.5°	446.4	434.3	414.2	404.2	398.1
70°	388.1	376.0	359.9	335.8	323.7
72.5°	329.8	319.7	303.6	267.4	255.4
75°	271.5	261.4	241.3	207.1	201.1
77.5°	213.1	207.1	181.0	170.9	176.9
80°	158.9	158.9	136.7	148.8	154.8
82.5°	106.6	102.5	112.6	114.6	114.6
85°	60.3	64.3	72.4	70.4	70.4
87.5°	26.1	30.2	32.2	30.2	30.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)