

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: P184557

Luminaire Tested: **36EN-LD2-39-UNV-L835-CD1-U**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P184557
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-L835-CD1-U
Description: METALUX ENCOUNTER 300X600 TROFFER

Light Source: EATON LED 3500K
Ballast/Driver: OSRAM ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3837.4 lumens
Efficiency: N/A
Efficacy: 108.4 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

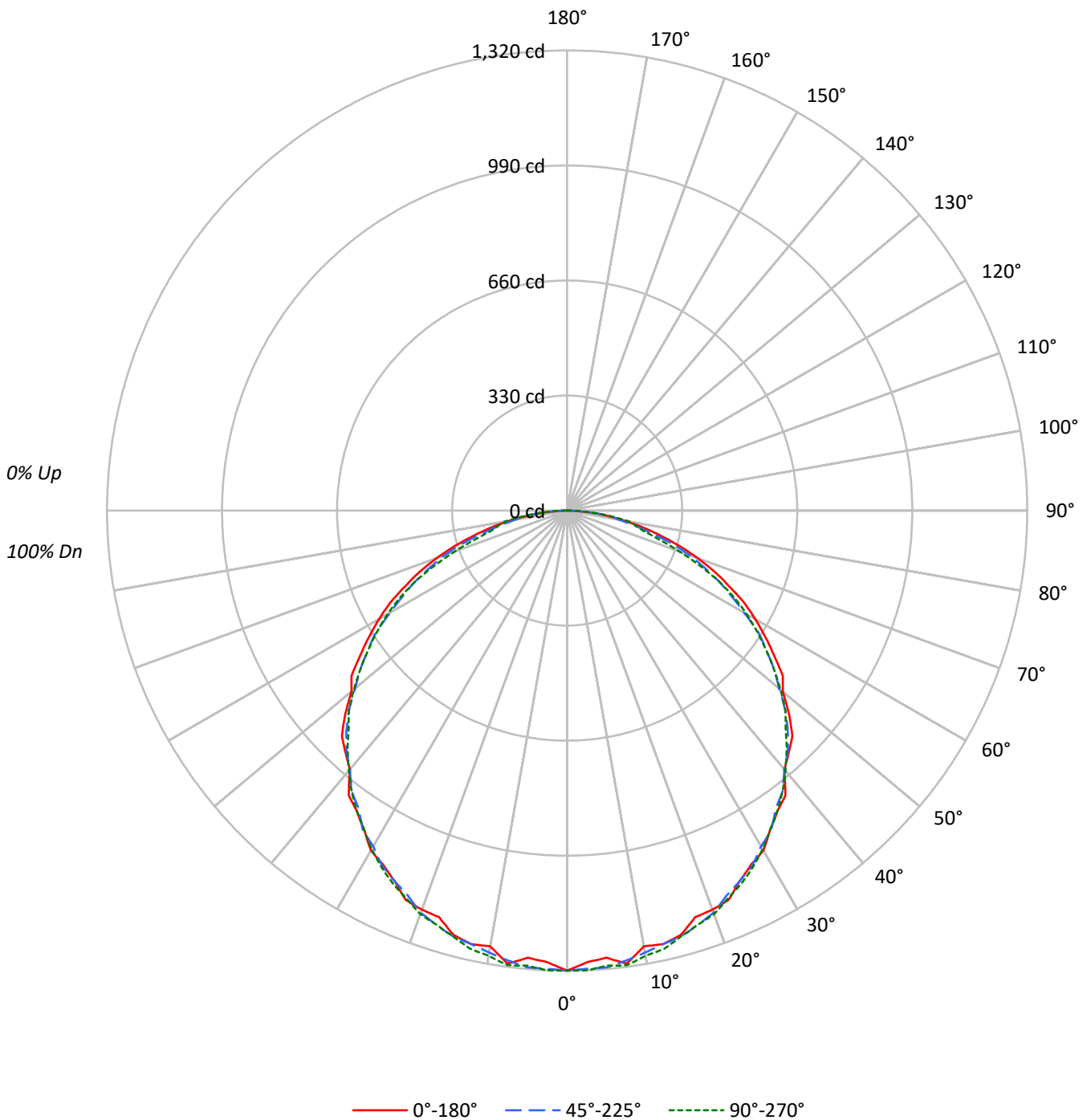
Input Watts (W): 35.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	7103	7103	7103
5°	6956	7105	7081
10°	6935	7036	7086
15°	7019	7045	7045
20°	6978	7030	7057
25°	6960	6960	7016
30°	6998	6911	6969
35°	6913	6852	6913
40°	6809	6809	6841
45°	6954	6814	6744
50°	6762	6646	6684
55°	6798	6538	6538
60°	6706	6309	6408
65°	6523	6111	6111
70°	6246	5882	5374
75°	5758	5182	4702
80°	5148	4720	5579
85°	4273	4841	4557



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.7	3.3
10°-20°	356.4	9.3
20°-30°	542.4	14.1
30°-40°	657.1	17.1
40°-50°	689.2	18.0
50°-60°	630.4	16.4
60°-70°	481.8	12.6
70°-80°	270.8	7.1
80°-90°	84.5	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°	1023.5	26.7
0°-40°	1680.6	43.8
0°-60°	3000.3	78.2
0°-90°	3837.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3837.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1320	1320	1320	1320	1320	
5°	1288	1311	1315	1324	1311	124
15°	1260	1260	1264	1264	1264	353
25°	1172	1177	1172	1181	1181	542
35°	1052	1048	1043	1052	1052	660
45°	914	900	895	886	886	697
55°	724	715	697	697	697	647
65°	512	498	480	475	480	508
75°	277	268	249	231	226	294
85°	69	69	78	74	74	80
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1319.8	1319.8	1319.8	1319.8	1319.8
2.5°	1296.7	1315.2	1315.2	1324.4	1319.8
5°	1287.5	1310.6	1315.2	1324.4	1310.6
7.5°	1310.6	1306.0	1301.3	1310.6	1315.2
10°	1269.0	1287.5	1287.5	1310.6	1296.7
12.5°	1273.7	1278.3	1273.7	1273.7	1287.5
15°	1259.8	1259.8	1264.4	1264.4	1264.4
17.5°	1222.9	1241.4	1246.0	1250.6	1246.0
20°	1218.3	1222.9	1227.5	1232.1	1232.1
22.5°	1209.0	1199.8	1195.2	1213.7	1204.4
25°	1172.1	1176.7	1172.1	1181.4	1181.4
27.5°	1144.4	1144.4	1149.1	1144.4	1153.7
30°	1126.0	1121.4	1112.1	1121.4	1121.4
32.5°	1084.5	1089.1	1089.1	1084.5	1084.5
35°	1052.2	1047.5	1042.9	1052.2	1052.2
37.5°	1029.1	1006.0	1015.2	1010.6	1015.2
40°	969.1	982.9	969.1	969.1	973.7
42.5°	941.4	936.8	936.8	932.2	932.2
45°	913.7	899.9	895.3	886.0	886.0
47.5°	862.9	862.9	849.1	839.9	849.1
50°	807.6	812.2	793.7	789.1	798.3
52.5°	779.9	766.0	747.6	752.2	747.6
55°	724.5	715.3	696.8	696.8	696.8
57.5°	673.7	669.1	650.7	646.1	646.1
60°	623.0	613.8	586.1	590.7	595.3
62.5°	572.2	558.4	530.7	539.9	539.9
65°	512.2	498.4	479.9	475.3	479.9
67.5°	456.9	438.4	424.6	419.9	410.7
70°	396.9	387.6	373.8	346.1	341.5
72.5°	336.9	323.0	313.8	281.5	276.9
75°	276.9	267.7	249.2	230.7	226.1
77.5°	221.5	216.9	193.8	193.8	203.0
80°	166.1	161.5	152.3	170.7	180.0
82.5°	115.4	110.8	124.6	129.2	129.2
85°	69.2	69.2	78.4	73.8	73.8
87.5°	27.7	32.3	32.3	36.9	36.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)