

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: P184549

Luminaire Tested: **36EN-LD2-31-UNV-L850-CD1-U**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P184549
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-LD2-31-UNV-L850-CD1-U
Description: METALUX ENCOUNTER 300X600 TROFFER

Light Source: EATON LED 5000K
Ballast/Driver: OSRAM ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3406.5 lumens
Efficiency: N/A
Efficacy: 123.0 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

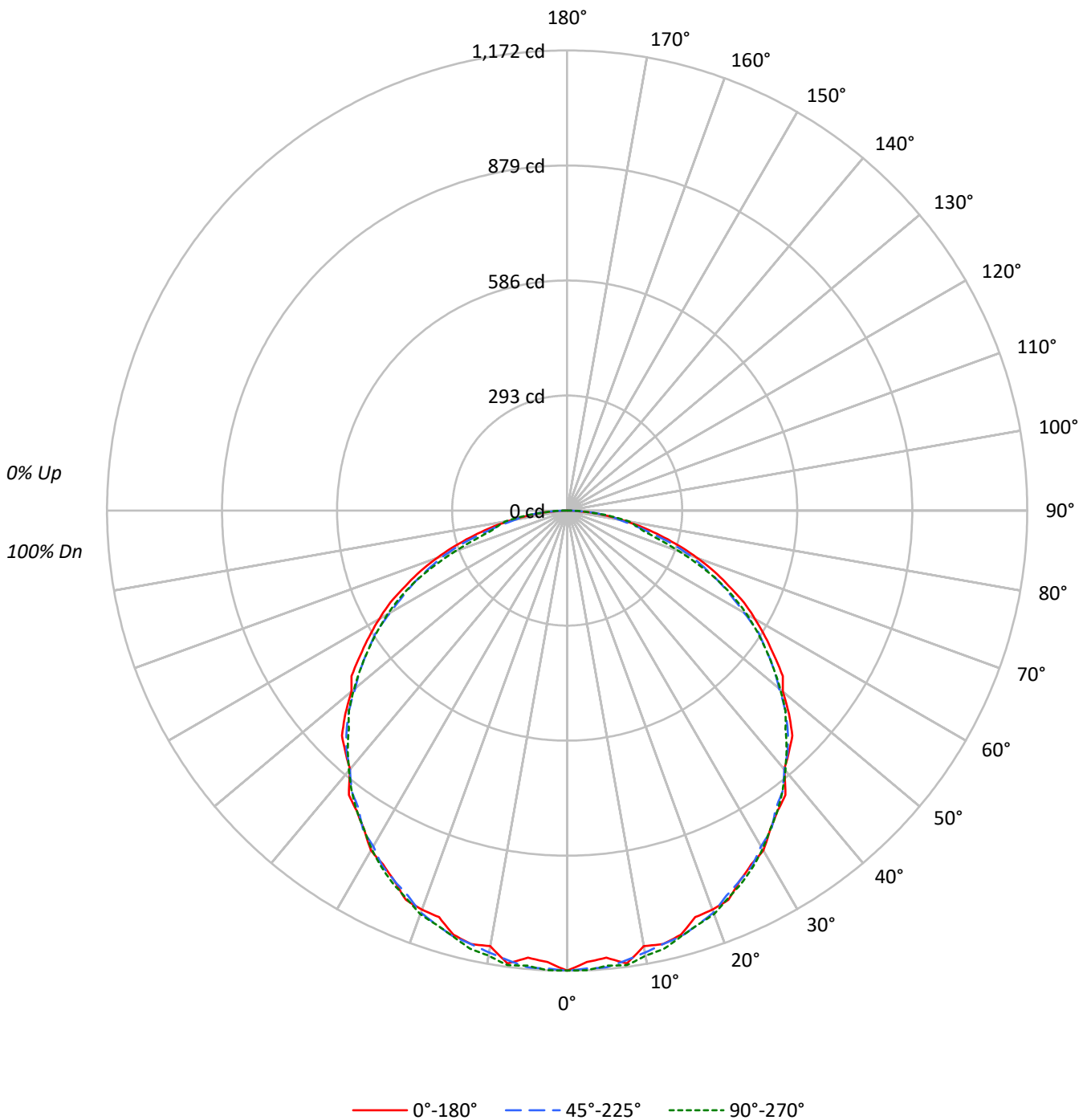
Input Watts (W): 27.7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	6306	6306	6306
5°	6175	6307	6285
10°	6157	6246	6291
15°	6232	6254	6254
20°	6194	6241	6265
25°	6179	6179	6228
30°	6212	6136	6187
35°	6137	6083	6137
40°	6044	6044	6073
45°	6173	6049	5986
50°	6002	5900	5934
55°	6035	5804	5804
60°	5952	5600	5689
65°	5791	5425	5425
70°	5544	5221	4770
75°	5111	4600	4173
80°	4572	4190	4953
85°	3792	4298	4045



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.7	3.3
10°-20°	316.3	9.3
20°-30°	481.5	14.1
30°-40°	583.3	17.1
40°-50°	611.8	18.0
50°-60°	559.6	16.4
60°-70°	427.7	12.6
70°-80°	240.4	7.1
80°-90°	75.0	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°	908.6	26.7
0°-40°	1491.9	43.8
0°-60°	2663.4	78.2
0°-90°	3406.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3406.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1172	1172	1172	1172	1172	
5°	1143	1163	1168	1176	1163	110
15°	1118	1118	1122	1122	1122	314
25°	1040	1045	1040	1049	1049	481
35°	934	930	926	934	934	586
45°	811	799	795	786	786	618
55°	643	635	619	619	619	575
65°	455	442	426	422	426	451
75°	246	238	221	205	201	261
85°	61	61	70	66	66	71
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1171.6	1171.6	1171.6	1171.6	1171.6
2.5°	1151.1	1167.5	1167.5	1175.7	1171.6
5°	1142.9	1163.4	1167.5	1175.7	1163.4
7.5°	1163.4	1159.3	1155.2	1163.4	1167.5
10°	1126.6	1142.9	1142.9	1163.4	1151.1
12.5°	1130.7	1134.7	1130.7	1130.7	1142.9
15°	1118.4	1118.4	1122.5	1122.5	1122.5
17.5°	1085.6	1102.0	1106.1	1110.2	1106.1
20°	1081.5	1085.6	1089.7	1093.8	1093.8
22.5°	1073.3	1065.1	1061.0	1077.4	1069.2
25°	1040.5	1044.6	1040.5	1048.7	1048.7
27.5°	1015.9	1015.9	1020.0	1015.9	1024.1
30°	999.6	995.5	987.3	995.5	995.5
32.5°	962.7	966.8	966.8	962.7	962.7
35°	934.0	929.9	925.8	934.0	934.0
37.5°	913.5	893.1	901.2	897.1	901.2
40°	860.3	872.6	860.3	860.3	864.4
42.5°	835.7	831.6	831.6	827.5	827.5
45°	811.1	798.8	794.7	786.5	786.5
47.5°	766.1	766.1	753.8	745.6	753.8
50°	716.9	721.0	704.6	700.5	708.7
52.5°	692.3	680.0	663.6	667.7	663.6
55°	643.2	635.0	618.6	618.6	618.6
57.5°	598.1	594.0	577.6	573.5	573.5
60°	553.0	544.8	520.3	524.4	528.5
62.5°	508.0	495.7	471.1	479.3	479.3
65°	454.7	442.4	426.0	421.9	426.0
67.5°	405.6	389.2	376.9	372.8	364.6
70°	352.3	344.1	331.8	307.2	303.1
72.5°	299.0	286.8	278.6	249.9	245.8
75°	245.8	237.6	221.2	204.8	200.7
77.5°	196.6	192.5	172.1	172.1	180.2
80°	147.5	143.4	135.2	151.6	159.8
82.5°	102.4	98.3	110.6	114.7	114.7
85°	61.4	61.4	69.6	65.5	65.5
87.5°	24.6	28.7	28.7	32.8	32.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)