

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: P184554

Luminaire Tested: **36EN-LD2-35-UNV-L850-CD1-U**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P184554
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-LD2-35-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: 3814.9 lumens
Efficiency: N/A
Efficacy: 121.5 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

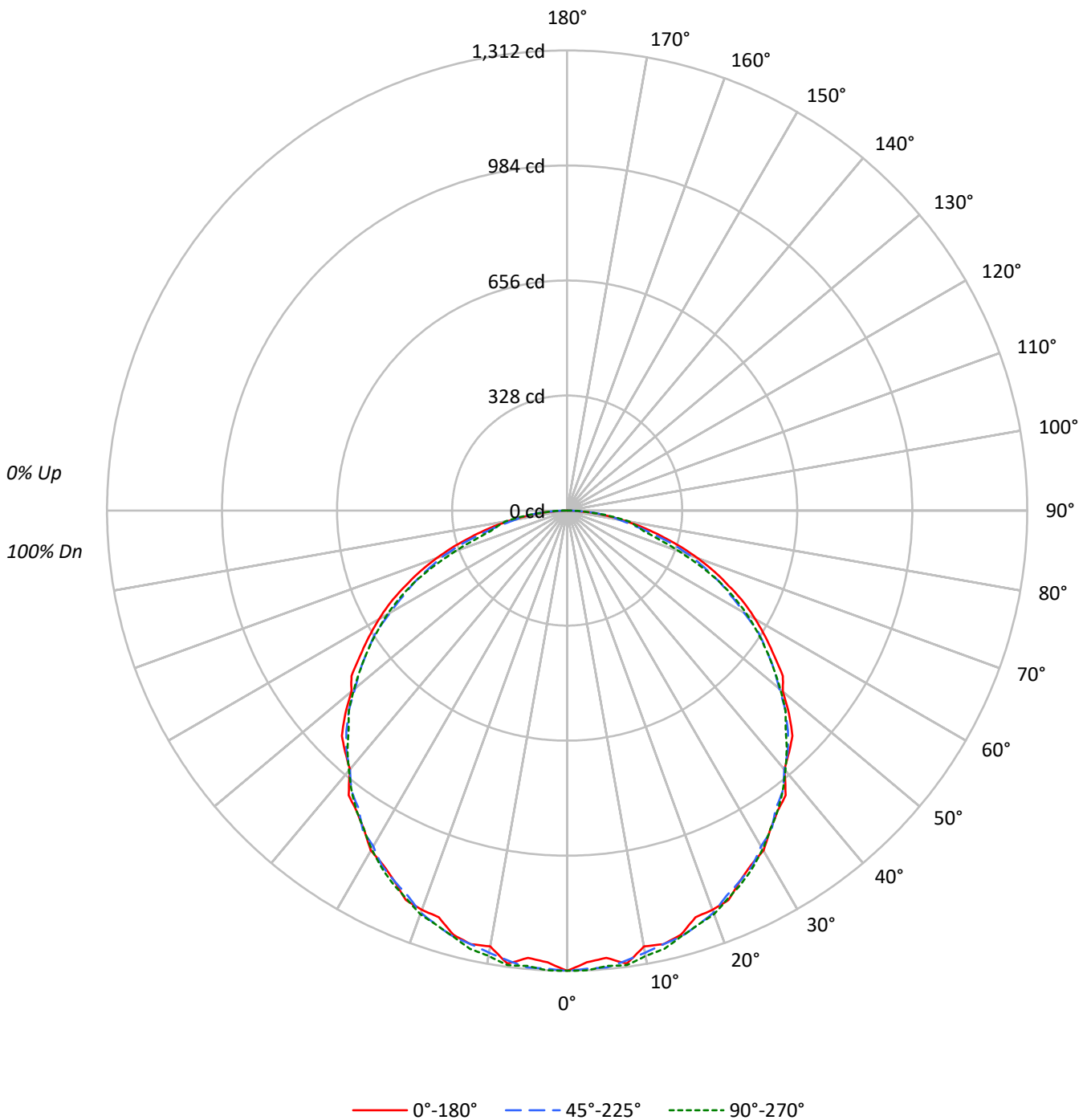
Input Watts (W): 31.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	7061	7061	7061
5°	6915	7063	7039
10°	6895	6995	7045
15°	6978	7004	7004
20°	6936	6989	7015
25°	6919	6919	6974
30°	6957	6871	6928
35°	6872	6812	6872
40°	6769	6769	6801
45°	6913	6774	6704
50°	6722	6607	6645
55°	6758	6500	6500
60°	6666	6271	6370
65°	6485	6076	6076
70°	6208	5847	5342
75°	5725	5151	4675
80°	5120	4692	5545
85°	4248	4817	4533



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.0	3.3
10°-20°	354.3	9.3
20°-30°	539.3	14.1
30°-40°	653.2	17.1
40°-50°	685.2	18.0
50°-60°	626.7	16.4
60°-70°	479.0	12.6
70°-80°	269.3	7.1
80°-90°	84.0	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°	1017.5	26.7
0°-40°	1670.8	43.8
0°-60°	2982.6	78.2
0°-90°	3814.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3814.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1312	1312	1312	1312	1312	
5°	1280	1303	1307	1317	1303	123
15°	1252	1252	1257	1257	1257	351
25°	1165	1170	1165	1174	1174	539
35°	1046	1041	1037	1046	1046	656
45°	908	895	890	881	881	692
55°	720	711	693	693	693	643
65°	509	496	477	472	477	505
75°	275	266	248	229	225	293
85°	69	69	78	73	73	80
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1312.0	1312.0	1312.0	1312.0	1312.0
2.5°	1289.1	1307.4	1307.4	1316.6	1312.0
5°	1279.9	1302.9	1307.4	1316.6	1302.9
7.5°	1302.9	1298.3	1293.7	1302.9	1307.4
10°	1261.6	1279.9	1279.9	1302.9	1289.1
12.5°	1266.2	1270.7	1266.2	1266.2	1279.9
15°	1252.4	1252.4	1257.0	1257.0	1257.0
17.5°	1215.7	1234.0	1238.6	1243.2	1238.6
20°	1211.1	1215.7	1220.3	1224.9	1224.9
22.5°	1201.9	1192.8	1188.2	1206.5	1197.3
25°	1165.2	1169.8	1165.2	1174.4	1174.4
27.5°	1137.7	1137.7	1142.3	1137.7	1146.9
30°	1119.4	1114.8	1105.6	1114.8	1114.8
32.5°	1078.1	1082.7	1082.7	1078.1	1078.1
35°	1046.0	1041.4	1036.8	1046.0	1046.0
37.5°	1023.0	1000.1	1009.3	1004.7	1009.3
40°	963.4	977.1	963.4	963.4	968.0
42.5°	935.9	931.3	931.3	926.7	926.7
45°	908.3	894.6	890.0	880.8	880.8
47.5°	857.9	857.9	844.1	834.9	844.1
50°	802.8	807.4	789.1	784.5	793.6
52.5°	775.3	761.5	743.2	747.8	743.2
55°	720.2	711.1	692.7	692.7	692.7
57.5°	669.8	665.2	646.8	642.3	642.3
60°	619.3	610.1	582.6	587.2	591.8
62.5°	568.9	555.1	527.6	536.7	536.7
65°	509.2	495.5	477.1	472.5	477.1
67.5°	454.2	435.8	422.1	417.5	408.3
70°	394.5	385.4	371.6	344.1	339.5
72.5°	334.9	321.1	312.0	279.8	275.3
75°	275.3	266.1	247.7	229.4	224.8
77.5°	220.2	215.6	192.7	192.7	201.9
80°	165.2	160.6	151.4	169.7	178.9
82.5°	114.7	110.1	123.9	128.5	128.5
85°	68.8	68.8	78.0	73.4	73.4
87.5°	27.5	32.1	32.1	36.7	36.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)