

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: P184541

Luminaire Tested: **36EN-LD2-27-UNV-L830-CD1-U**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P184541
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-LD2-27-UNV-L830-CD1-U
Description: METALUX ENCOUNTER 300X600 TROFFER

Light Source: EATON LED 3000K
Ballast/Driver: OSRAM ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2612.6 lumens
Efficiency: N/A
Efficacy: 108.9 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

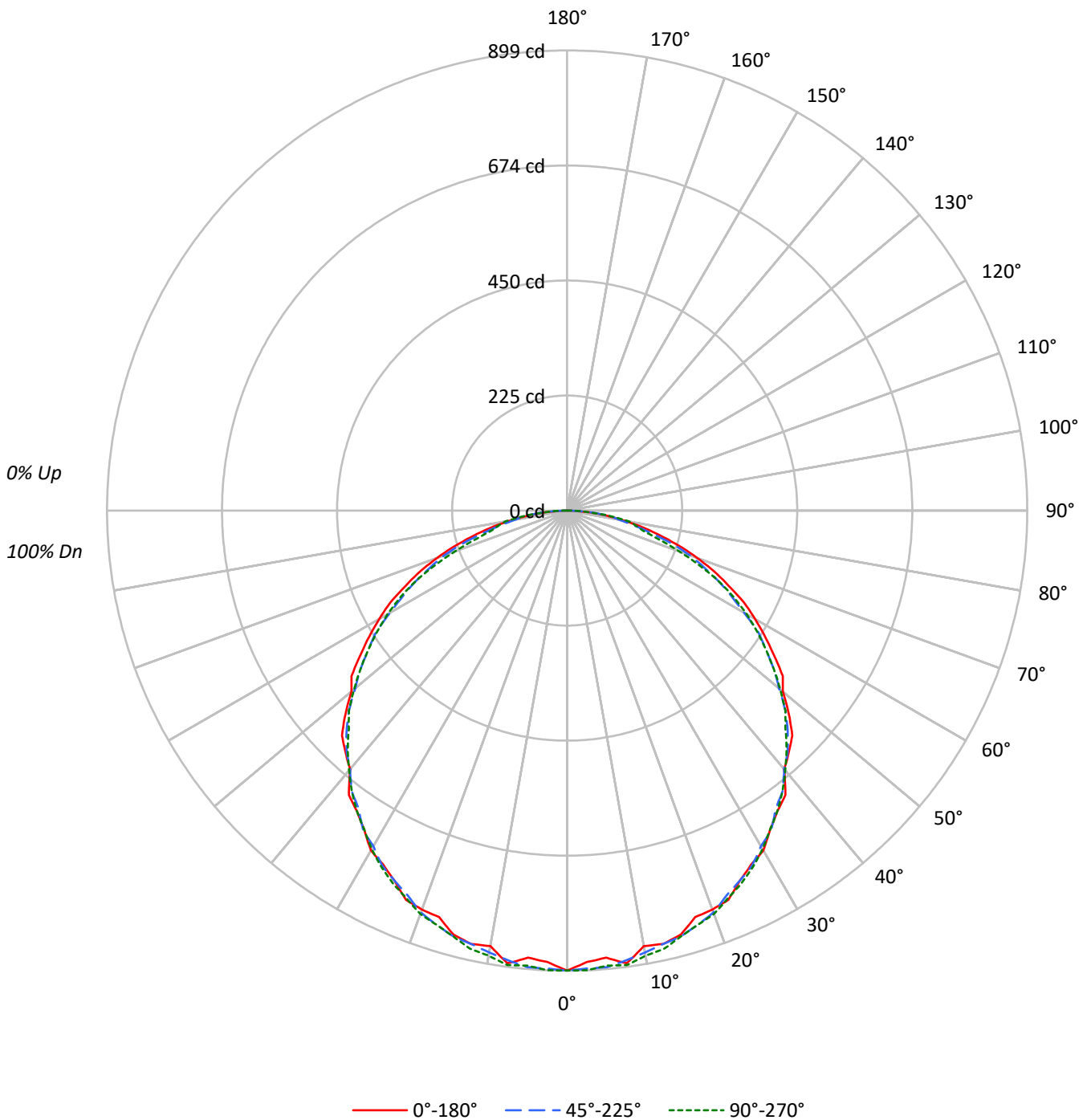
Input Watts (W): 24
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P184541

CATALOG NUMBER: 36EN-LD2-27-UNV-L830-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P184541

CATALOG NUMBER: 36EN-LD2-27-UNV-L830-CD1-U

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°	4836	4836	4836
5°	4736	4837	4821
10°	4722	4791	4825
15°	4779	4797	4797
20°	4750	4786	4805
25°	4739	4739	4776
30°	4764	4706	4745
35°	4706	4665	4706
40°	4636	4636	4657
45°	4735	4639	4591
50°	4603	4525	4551
55°	4629	4451	4451
60°	4565	4295	4363
65°	4441	4160	4160
70°	4252	4005	3659
75°	3920	3529	3200
80°	3505	3214	3797
85°	2908	3298	3106



TEST NUMBER: P184541

CATALOG NUMBER: 36EN-LD2-27-UNV-L830-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.9	3.3
10°-20°	242.6	9.3
20°-30°	369.3	14.1
30°-40°	447.4	17.1
40°-50°	469.2	18.0
50°-60°	429.2	16.4
60°-70°	328.0	12.6
70°-80°	184.4	7.1
80°-90°	57.5	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°	696.9	26.7
0°-40°	1144.2	43.8
0°-60°	2042.7	78.2
0°-90°	2612.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2612.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	899	899	899	899	899	
5°	877	892	895	902	892	84
15°	858	858	861	861	861	241
25°	798	801	798	804	804	369
35°	716	713	710	716	716	449
45°	622	613	610	603	603	474
55°	493	487	474	474	474	441
65°	349	339	327	324	327	346
75°	188	182	170	157	154	200
85°	47	47	53	50	50	55
90°	0	0	0	0	0	



TEST NUMBER: P184541

CATALOG NUMBER: 36EN-LD2-27-UNV-L830-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	898.6	898.6	898.6	898.6	898.6
2.5°	882.9	895.4	895.4	901.7	898.6
5°	876.6	892.3	895.4	901.7	892.3
7.5°	892.3	889.1	886.0	892.3	895.4
10°	864.0	876.6	876.6	892.3	882.9
12.5°	867.1	870.3	867.1	867.1	876.6
15°	857.7	857.7	860.9	860.9	860.9
17.5°	832.6	845.2	848.3	851.4	848.3
20°	829.4	832.6	835.7	838.9	838.9
22.5°	823.2	816.9	813.7	826.3	820.0
25°	798.0	801.2	798.0	804.3	804.3
27.5°	779.2	779.2	782.3	779.2	785.5
30°	766.6	763.5	757.2	763.5	763.5
32.5°	738.3	741.5	741.5	738.3	738.3
35°	716.3	713.2	710.1	716.3	716.3
37.5°	700.6	684.9	691.2	688.1	691.2
40°	659.8	669.2	659.8	659.8	662.9
42.5°	640.9	637.8	637.8	634.6	634.6
45°	622.1	612.7	609.5	603.2	603.2
47.5°	587.5	587.5	578.1	571.8	578.1
50°	549.8	553.0	540.4	537.3	543.5
52.5°	531.0	521.5	509.0	512.1	509.0
55°	493.3	487.0	474.4	474.4	474.4
57.5°	458.7	455.6	443.0	439.9	439.9
60°	424.1	417.9	399.0	402.2	405.3
62.5°	389.6	380.2	361.3	367.6	367.6
65°	348.7	339.3	326.7	323.6	326.7
67.5°	311.0	298.5	289.0	285.9	279.6
70°	270.2	263.9	254.5	235.6	232.5
72.5°	229.4	219.9	213.6	191.7	188.5
75°	188.5	182.2	169.7	157.1	153.9
77.5°	150.8	147.7	132.0	132.0	138.2
80°	113.1	110.0	103.7	116.2	122.5
82.5°	78.5	75.4	84.8	88.0	88.0
85°	47.1	47.1	53.4	50.3	50.3
87.5°	18.9	22.0	22.0	25.1	25.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)