

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: P184531

Luminaire Tested: **36EN-LD2-17-UNV-L830-CD1-U**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P184531
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-LD2-17-UNV-L830-CD1-U
Description: METALUX ENCOUNTER 300X600 TROFFER

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

Summary

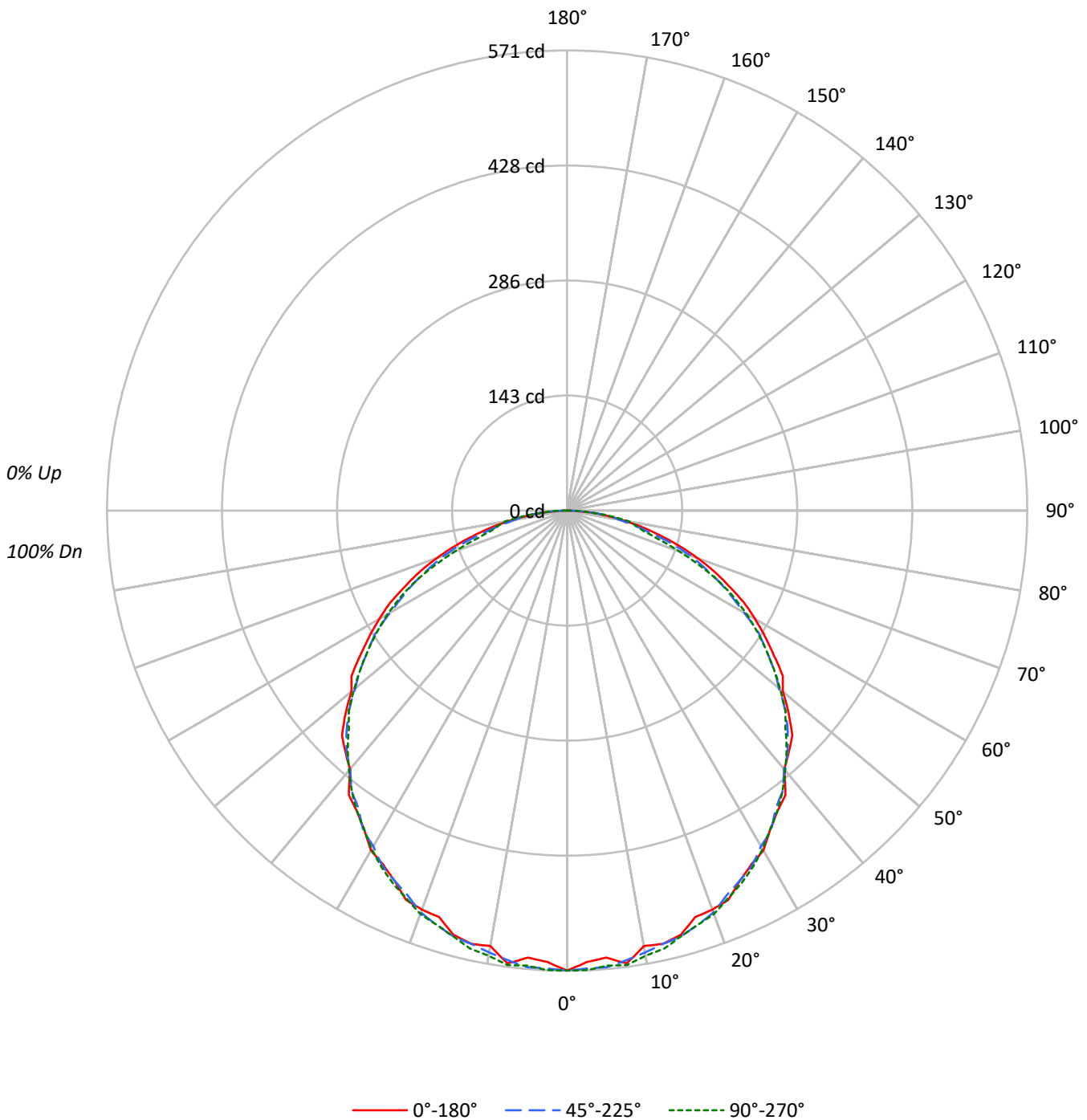
Lumens per Lamp: N/A
Luminaire Lumens: 1659.3 lumens
Efficiency: N/A
Efficacy: 105.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.38
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 15.7
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: P184531
CATALOG NUMBER: 36EN-LD2-17-UNV-L830-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P184531

CATALOG NUMBER: 36EN-LD2-17-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°	3071	3071	3071
5°	3008	3072	3062
10°	2999	3042	3064
15°	3036	3047	3047
20°	3017	3040	3052
25°	3010	3010	3033
30°	3026	2989	3013
35°	2989	2963	2989
40°	2944	2944	2958
45°	3007	2946	2916
50°	2924	2874	2890
55°	2940	2827	2827
60°	2900	2728	2771
65°	2821	2642	2642
70°	2700	2543	2324
75°	2489	2242	2034
80°	2225	2039	2411
85°	1846	2093	1970



TEST NUMBER: P184531

CATALOG NUMBER: 36EN-LD2-17-UNV-L830-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.9	3.3
10°-20°	154.1	9.3
20°-30°	234.6	14.1
30°-40°	284.1	17.1
40°-50°	298.0	18.0
50°-60°	272.6	16.4
60°-70°	208.3	12.6
70°-80°	117.1	7.1
80°-90°	36.5	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°	442.6	26.7
0°-40°	726.7	43.8
0°-60°	1297.4	78.2
0°-90°	1659.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1659.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	571	571	571	571	571	
5°	557	567	569	573	567	53
15°	545	545	547	547	547	153
25°	507	509	507	511	511	234
35°	455	453	451	455	455	285
45°	395	389	387	383	383	301
55°	313	309	301	301	301	280
65°	222	216	208	206	208	219
75°	120	116	108	100	98	127
85°	30	30	34	32	32	35
90°	0	0	0	0	0	



TEST NUMBER: P184531

CATALOG NUMBER: 36EN-LD2-17-UNV-L830-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	570.7	570.7	570.7	570.7	570.7
2.5°	560.7	568.7	568.7	572.7	570.7
5°	556.7	566.7	568.7	572.7	566.7
7.5°	566.7	564.7	562.7	566.7	568.7
10°	548.7	556.7	556.7	566.7	560.7
12.5°	550.7	552.7	550.7	550.7	556.7
15°	544.8	544.8	546.8	546.8	546.8
17.5°	528.8	536.8	538.8	540.8	538.8
20°	526.8	528.8	530.8	532.8	532.8
22.5°	522.8	518.8	516.8	524.8	520.8
25°	506.8	508.8	506.8	510.8	510.8
27.5°	494.9	494.9	496.9	494.9	498.9
30°	486.9	484.9	480.9	484.9	484.9
32.5°	468.9	470.9	470.9	468.9	468.9
35°	455.0	453.0	451.0	455.0	455.0
37.5°	445.0	435.0	439.0	437.0	439.0
40°	419.0	425.0	419.0	419.0	421.0
42.5°	407.1	405.1	405.1	403.1	403.1
45°	395.1	389.1	387.1	383.1	383.1
47.5°	373.1	373.1	367.2	363.2	367.2
50°	349.2	351.2	343.2	341.2	345.2
52.5°	337.2	331.2	323.3	325.3	323.3
55°	313.3	309.3	301.3	301.3	301.3
57.5°	291.3	289.3	281.4	279.4	279.4
60°	269.4	265.4	253.4	255.4	257.4
62.5°	247.4	241.4	229.5	233.5	233.5
65°	221.5	215.5	207.5	205.5	207.5
67.5°	197.5	189.6	183.6	181.6	177.6
70°	171.6	167.6	161.6	149.7	147.7
72.5°	145.7	139.7	135.7	121.7	119.7
75°	119.7	115.7	107.8	99.8	97.8
77.5°	95.8	93.8	83.8	83.8	87.8
80°	71.8	69.8	65.8	73.8	77.8
82.5°	49.9	47.9	53.9	55.9	55.9
85°	29.9	29.9	33.9	31.9	31.9
87.5°	12.0	14.0	14.0	16.0	16.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)