

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: P184482

Luminaire Tested: **312EN-LD2-18-UNV-L835-CD1-U**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P184482
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34485)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: 312EN-LD2-18-UNV-L835-CD1-U
Description: METALUX ENCOUNTER 300X1200 TROFFER

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

Summary

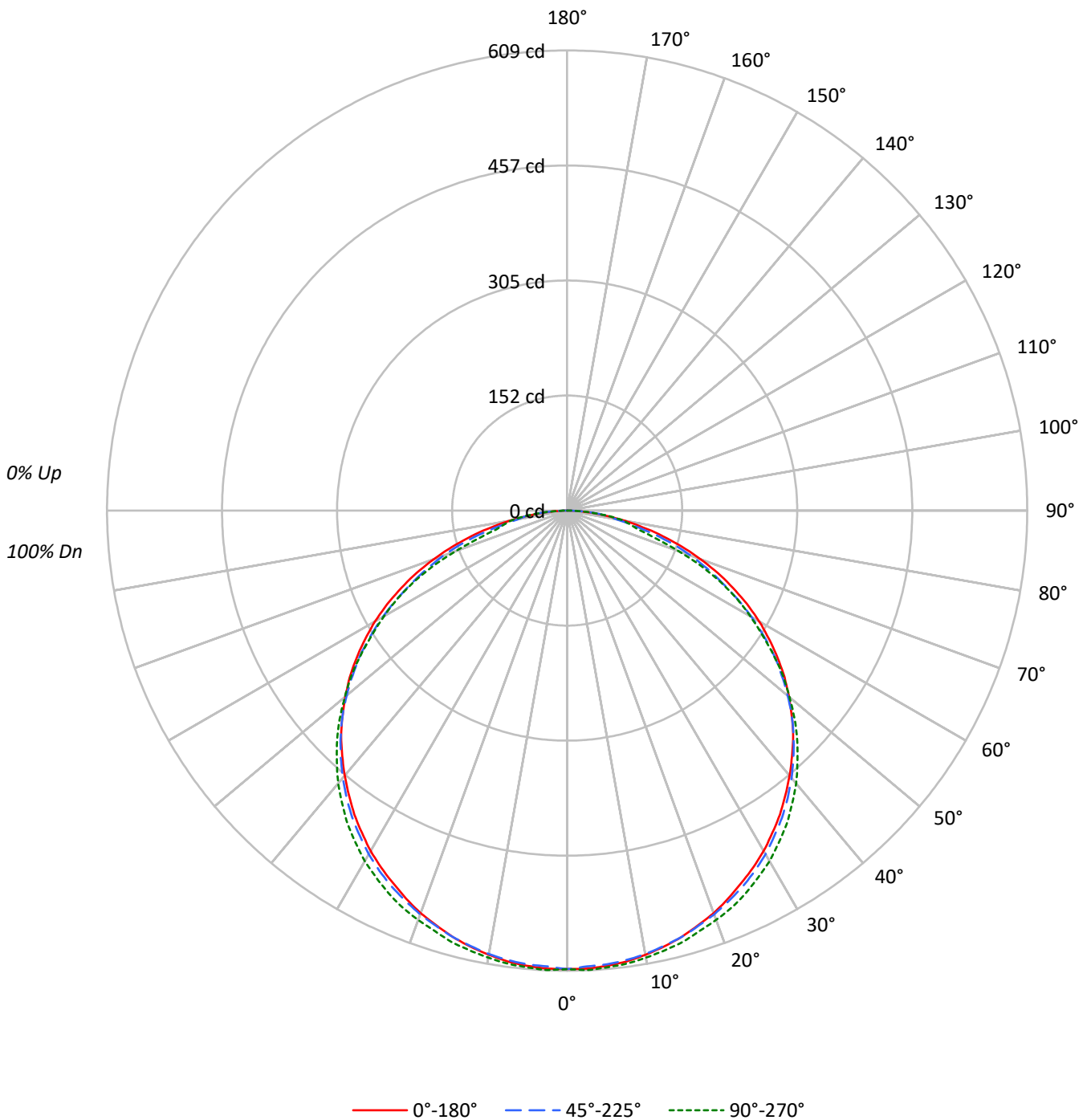
Lumens per Lamp: N/A
Luminaire Lumens: 1804.3 lumens
Efficiency: N/A
Efficacy: 112.8 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.31 / 1.41
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 16
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	91	88	90	87	85	83
2	99	90	83	77	96	88	82	77	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	77	70	64	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	51	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	41	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	28	55	42	34	28	41	33	28	40	33	28	39	32	28	26
10	52	39	31	26	51	39	31	26	38	30	26	37	30	25	36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1633	1633	1633
5°	1634	1629	1639
10°	1631	1629	1642
15°	1628	1628	1647
20°	1623	1629	1651
25°	1617	1631	1660
30°	1616	1632	1665
35°	1613	1629	1664
40°	1609	1623	1657
45°	1610	1614	1639
50°	1604	1596	1608
55°	1597	1569	1565
60°	1581	1518	1507
65°	1542	1443	1430
70°	1477	1370	1232
75°	1365	1213	1011
80°	1190	1024	1161
85°	902	1081	1050



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.5	3.2
10°-20°	165.5	9.2
20°-30°	253.9	14.1
30°-40°	311.0	17.2
40°-50°	327.8	18.2
50°-60°	299.4	16.6
60°-70°	227.5	12.6
70°-80°	124.2	6.9
80°-90°	37.3	2.1
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°	477.0	26.4
0°-40°	787.9	43.7
0°-60°	1415.2	78.4
0°-90°	1804.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1804.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	607	607	607	607	607	
5°	605	605	603	606	607	57
15°	584	584	584	589	591	165
25°	544	546	549	556	559	251
35°	491	491	496	503	507	307
45°	423	423	424	428	431	326
55°	340	339	334	332	334	304
65°	242	237	227	225	225	239
75°	131	126	117	100	97	139
85°	29	31	35	34	34	36
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	606.8	606.8	606.8	606.8	606.8
2.5°	606.8	606.8	603.8	606.8	608.7
5°	604.8	604.8	602.9	605.8	606.8
7.5°	601.9	601.9	600.0	602.9	604.8
10°	597.0	597.0	596.1	599.0	600.9
12.5°	591.2	591.2	590.2	594.1	596.1
15°	584.4	584.4	584.4	589.3	591.2
17.5°	575.6	576.6	576.6	581.5	583.4
20°	566.9	567.9	568.8	574.7	576.6
22.5°	556.2	556.2	559.1	565.9	568.8
25°	544.5	545.5	549.4	556.2	559.1
27.5°	532.9	533.8	537.7	544.5	547.4
30°	520.2	521.2	525.1	531.9	535.8
32.5°	505.6	506.6	510.5	518.3	521.2
35°	491.0	491.0	495.9	502.7	506.6
37.5°	474.5	475.5	479.4	486.2	489.1
40°	458.0	459.0	461.9	467.7	471.6
42.5°	440.5	441.5	443.4	448.3	451.2
45°	423.0	423.0	424.0	427.8	430.8
47.5°	403.5	403.5	403.5	405.5	408.4
50°	383.1	383.1	381.2	382.1	384.1
52.5°	362.7	361.7	357.8	357.8	360.8
55°	340.3	339.4	334.5	331.6	333.5
57.5°	317.0	315.0	308.2	305.3	306.3
60°	293.7	290.7	282.0	278.1	280.0
62.5°	268.4	265.5	254.8	251.8	253.8
65°	242.1	237.3	226.6	224.6	224.6
67.5°	215.9	210.0	200.3	195.4	192.5
70°	187.7	181.8	174.1	162.4	156.6
72.5°	159.5	154.6	146.8	129.3	123.5
75°	131.3	126.4	116.7	100.2	97.2
77.5°	103.1	100.2	87.5	82.7	85.6
80°	76.8	76.8	66.1	72.0	74.9
82.5°	51.5	49.6	54.5	55.4	55.4
85°	29.2	31.1	35.0	34.0	34.0
87.5°	12.6	14.6	15.6	14.6	14.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)