

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: P184484

Luminaire Tested: **312EN-LD2-18-UNV-L850-CD1-U**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P184484
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-L850-CD1-U
Description: METALUX ENCOUNTER 300X1200 TROFFER

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

Summary

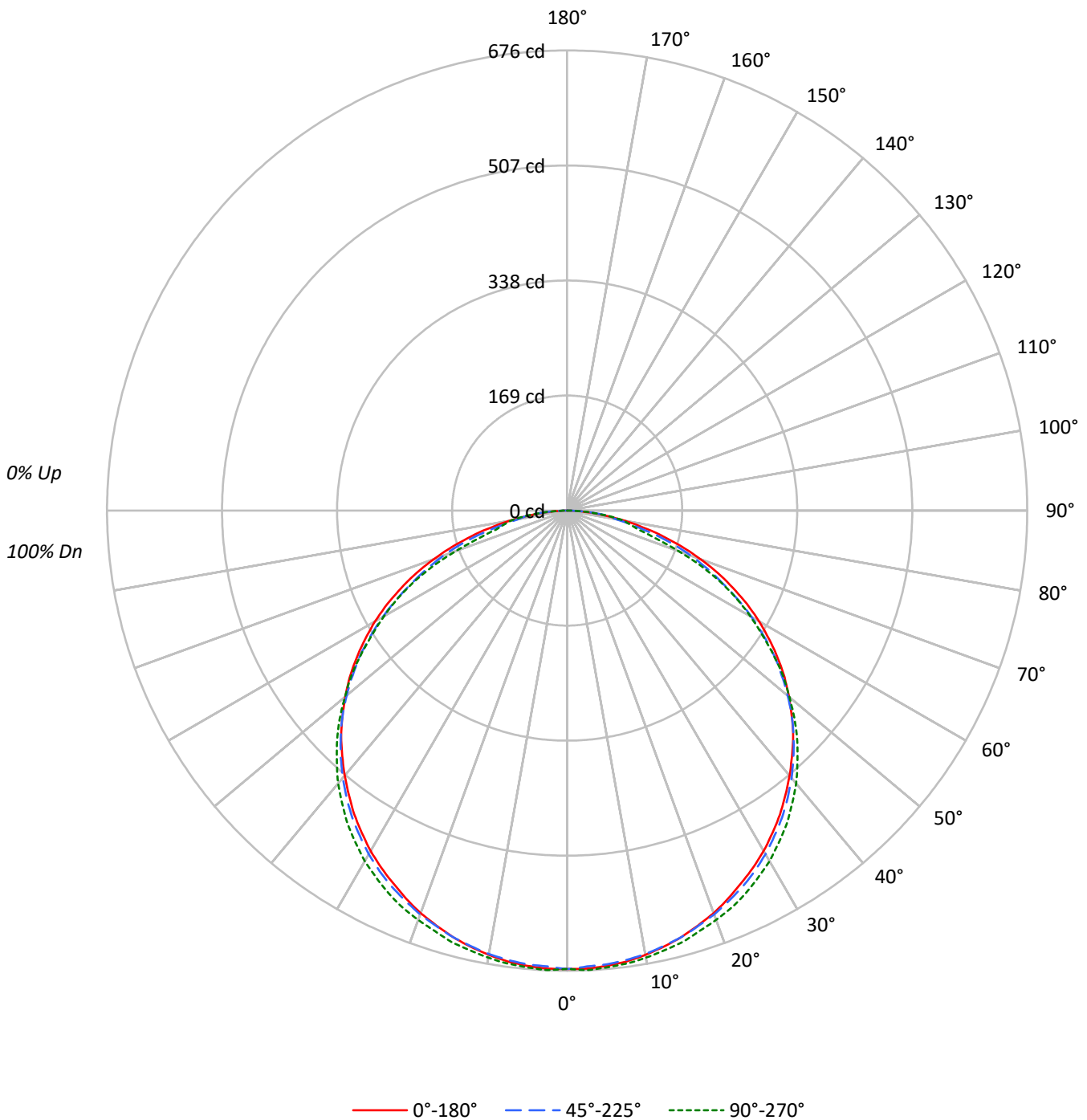
Lumens per Lamp: N/A
Luminaire Lumens: 2002.8 lumens
Efficiency: N/A
Efficacy: 125.2 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.31 / 1.41
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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°	1812	1812	1812
5°	1813	1808	1819
10°	1811	1808	1823
15°	1807	1807	1828
20°	1802	1808	1833
25°	1795	1811	1843
30°	1794	1811	1848
35°	1791	1808	1847
40°	1786	1801	1839
45°	1787	1791	1819
50°	1780	1771	1785
55°	1772	1742	1737
60°	1755	1685	1673
65°	1712	1601	1587
70°	1639	1520	1367
75°	1515	1346	1122
80°	1322	1137	1288
85°	1000	1201	1167



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.8	3.2
10°-20°	183.8	9.2
20°-30°	281.8	14.1
30°-40°	345.2	17.2
40°-50°	363.9	18.2
50°-60°	332.4	16.6
60°-70°	252.6	12.6
70°-80°	137.9	6.9
80°-90°	41.4	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°	529.4	26.4
0°-40°	874.6	43.7
0°-60°	1570.9	78.4
0°-90°	2002.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2002.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	674	674	674	674	674	
5°	671	671	669	672	674	64
15°	649	649	649	654	656	183
25°	604	606	610	617	621	279
35°	545	545	550	558	562	341
45°	470	470	471	475	478	362
55°	378	377	371	368	370	337
65°	269	263	252	249	249	266
75°	146	140	130	111	108	154
85°	32	34	39	38	38	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	673.5	673.5	673.5	673.5	673.5
2.5°	673.5	673.5	670.3	673.5	675.7
5°	671.3	671.3	669.2	672.4	673.5
7.5°	668.1	668.1	665.9	669.2	671.3
10°	662.7	662.7	661.6	664.9	667.0
12.5°	656.2	656.2	655.2	659.5	661.6
15°	648.7	648.7	648.7	654.1	656.2
17.5°	639.0	640.0	640.0	645.4	647.6
20°	629.3	630.3	631.4	637.9	640.0
22.5°	617.4	617.4	620.6	628.2	631.4
25°	604.4	605.5	609.8	617.4	620.6
27.5°	591.5	592.6	596.9	604.4	607.7
30°	577.4	578.5	582.8	590.4	594.7
32.5°	561.3	562.3	566.7	575.3	578.5
35°	545.1	545.1	550.5	558.0	562.3
37.5°	526.7	527.8	532.1	539.7	542.9
40°	508.4	509.4	512.7	519.2	523.5
42.5°	488.9	490.0	492.2	497.6	500.8
45°	469.5	469.5	470.6	474.9	478.1
47.5°	447.9	447.9	447.9	450.1	453.3
50°	425.3	425.3	423.1	424.2	426.3
52.5°	402.6	401.5	397.2	397.2	400.4
55°	377.8	376.7	371.3	368.1	370.2
57.5°	351.9	349.7	342.1	338.9	340.0
60°	326.0	322.7	313.0	308.7	310.8
62.5°	297.9	294.7	282.8	279.5	281.7
65°	268.8	263.4	251.5	249.3	249.3
67.5°	239.6	233.1	222.3	216.9	213.7
70°	208.3	201.8	193.2	180.2	173.8
72.5°	177.0	171.6	163.0	143.6	137.1
75°	145.7	140.3	129.5	111.2	107.9
77.5°	114.4	111.2	97.1	91.7	95.0
80°	85.3	85.3	73.4	79.9	83.1
82.5°	57.2	55.0	60.4	61.5	61.5
85°	32.4	34.5	38.9	37.8	37.8
87.5°	14.0	16.2	17.3	16.2	16.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)