

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: P184487

Luminaire Tested: **312EN-LD2-25-UNV-L835-CD1-U**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P184487
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-LD2-25-UNV-L835-CD1-U
Description: METALUX ENCOUNTER 300X1200 TROFFER

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

Summary

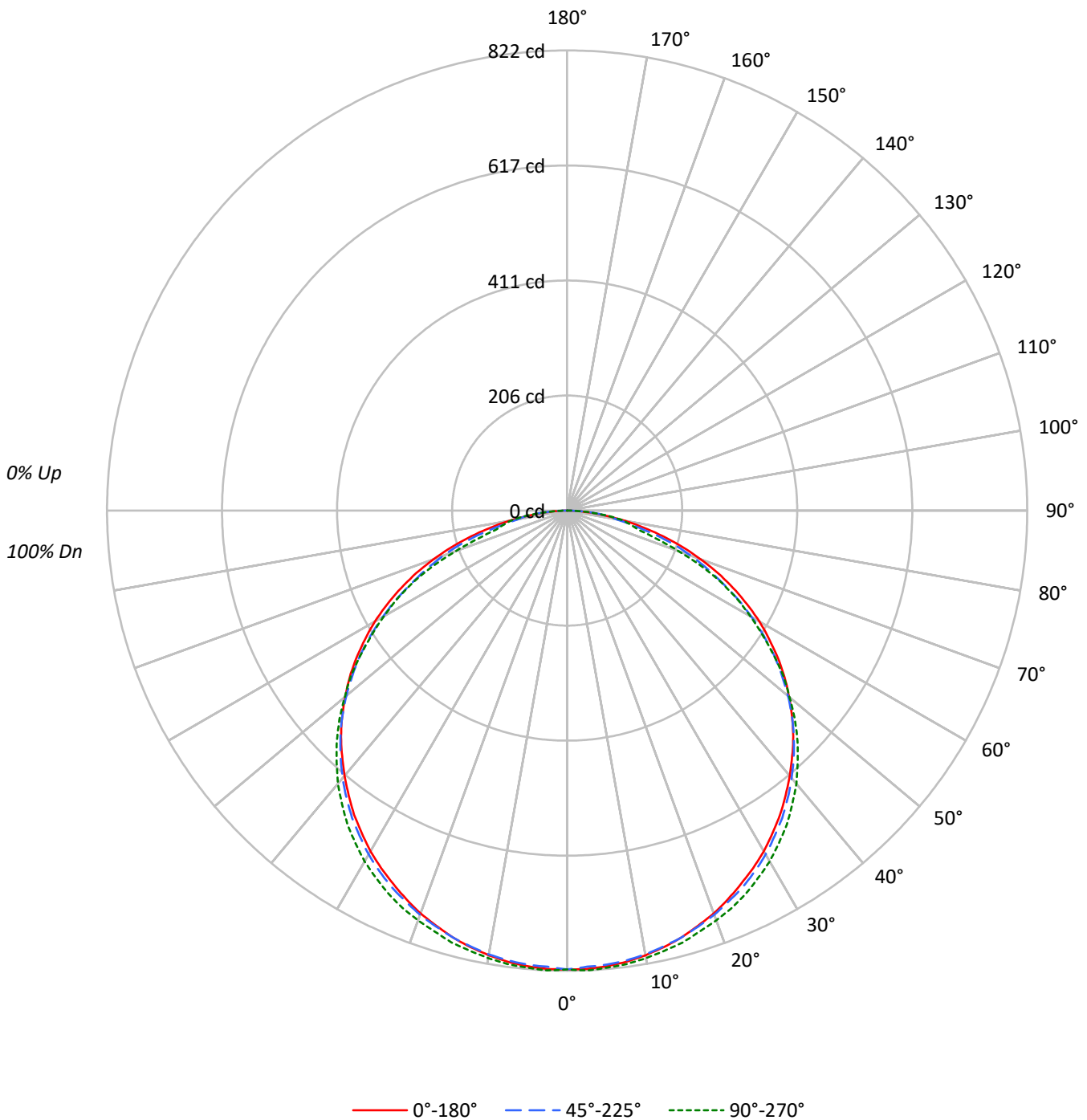
Lumens per Lamp: N/A
Luminaire Lumens: 2437.2 lumens
Efficiency: N/A
Efficacy: 116.6 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.31 / 1.41
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 20.9
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	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					100			
1	109	104	99	95	106	101	97	94	97	94	91	93	91	88	90	87	85	83					83			
2	99	90	83	77	96	88	82	77	85	79	75	81	77	73	78	75	71	69					69			
3	90	79	71	64	87	77	70	64	74	68	62	72	66	61	69	64	60	58					58			
4	82	70	61	54	80	69	60	54	66	59	53	64	57	52	61	56	52	49					49			
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	43					43			
6	70	56	47	40	68	55	47	40	53	46	40	52	45	40	50	44	39	37					37			
7	64	51	42	36	63	50	41	36	48	41	35	47	40	35	46	39	35	33					33			
8	60	46	38	32	58	46	37	32	44	37	31	43	36	31	42	36	31	29					29			
9	56	42	34	28	55	42	34	28	41	33	28	40	33	28	39	32	28	26					26			
10	52	39	31	26	51	39	31	26	38	30	26	37	30	25	36	30	25	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2206	2206	2206
5°	2207	2200	2214
10°	2204	2200	2218
15°	2199	2199	2225
20°	2193	2200	2231
25°	2184	2203	2242
30°	2183	2204	2249
35°	2179	2201	2248
40°	2173	2192	2238
45°	2174	2179	2214
50°	2166	2156	2172
55°	2157	2120	2114
60°	2135	2050	2036
65°	2082	1948	1932
70°	1995	1850	1664
75°	1843	1639	1365
80°	1609	1384	1567
85°	1216	1460	1420



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.7	3.2
10°-20°	223.6	9.2
20°-30°	343.0	14.1
30°-40°	420.0	17.2
40°-50°	442.8	18.2
50°-60°	404.5	16.6
60°-70°	307.3	12.6
70°-80°	167.8	6.9
80°-90°	50.4	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°	644.3	26.4
0°-40°	1064.3	43.7
0°-60°	1911.6	78.4
0°-90°	2437.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2437.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	820	820	820	820	820	
5°	817	817	814	818	820	78
15°	789	789	789	796	799	223
25°	736	737	742	751	755	339
35°	663	663	670	679	684	415
45°	571	571	573	578	582	440
55°	460	458	452	448	450	411
65°	327	320	306	303	303	323
75°	177	171	158	135	131	187
85°	39	42	47	46	46	48
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	819.6	819.6	819.6	819.6	819.6
2.5°	819.6	819.6	815.6	819.6	822.2
5°	817.0	817.0	814.3	818.3	819.6
7.5°	813.0	813.0	810.4	814.3	817.0
10°	806.5	806.5	805.1	809.1	811.7
12.5°	798.6	798.6	797.3	802.5	805.1
15°	789.4	789.4	789.4	795.9	798.6
17.5°	777.6	778.9	778.9	785.4	788.1
20°	765.7	767.0	768.4	776.2	778.9
22.5°	751.3	751.3	755.2	764.4	768.4
25°	735.5	736.8	742.1	751.3	755.2
27.5°	719.8	721.1	726.3	735.5	739.5
30°	702.7	704.0	709.3	718.5	723.7
32.5°	683.0	684.3	689.6	700.1	704.0
35°	663.3	663.3	669.9	679.0	684.3
37.5°	641.0	642.3	647.5	656.7	660.7
40°	618.6	619.9	623.9	631.8	637.0
42.5°	595.0	596.3	598.9	605.5	609.4
45°	571.3	571.3	572.7	577.9	581.9
47.5°	545.1	545.1	545.1	547.7	551.6
50°	517.5	517.5	514.9	516.2	518.8
52.5°	489.9	488.6	483.3	483.3	487.3
55°	459.7	458.4	451.8	447.9	450.5
57.5°	428.2	425.6	416.4	412.4	413.7
60°	396.7	392.7	380.9	375.6	378.3
62.5°	362.5	358.6	344.1	340.2	342.8
65°	327.0	320.5	306.0	303.4	303.4
67.5°	291.6	283.7	270.6	264.0	260.1
70°	253.5	245.6	235.1	219.3	211.5
72.5°	215.4	208.8	198.3	174.7	166.8
75°	177.3	170.7	157.6	135.3	131.3
77.5°	139.2	135.3	118.2	111.6	115.6
80°	103.8	103.8	89.3	97.2	101.1
82.5°	69.6	67.0	73.6	74.9	74.9
85°	39.4	42.0	47.3	46.0	46.0
87.5°	17.1	19.7	21.0	19.7	19.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)