

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: P184452

Luminaire Tested: **66EN-LD2-20-UNV-L835-CD1-U**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P184452
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34466)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: 66EN-LD2-20-UNV-L835-CD1-U
Description: METALUX ENCOUNTER 600X600 TROFFER

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

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1966.3 lumens
Efficiency: N/A
Efficacy: 119.2 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.28 / 1.39
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

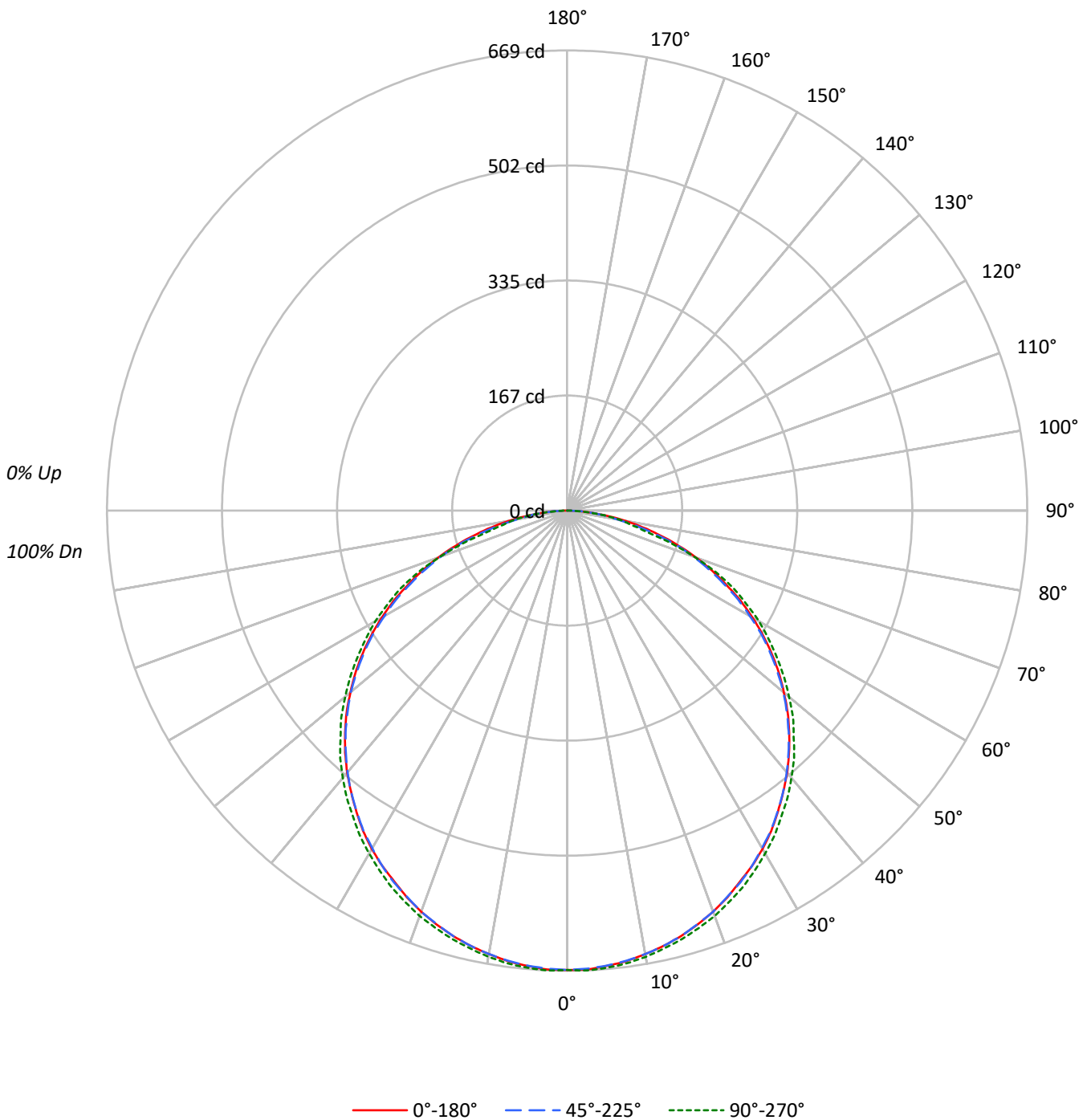
Input Watts (W): 16.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	68	60	54	66	59	53	64	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	46	57	50	45	55	49	45	42
6	69	56	47	40	68	55	46	40	53	45	40	51	45	39	50	44	39	37
7	64	51	42	36	63	50	41	35	48	41	35	47	40	35	45	39	35	33
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	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°	1797	1797	1797
5°	1795	1794	1802
10°	1789	1789	1800
15°	1784	1784	1797
20°	1777	1777	1796
25°	1766	1770	1794
30°	1765	1761	1789
35°	1755	1753	1783
40°	1748	1745	1782
45°	1738	1733	1773
50°	1722	1719	1763
55°	1704	1692	1747
60°	1675	1650	1735
65°	1626	1596	1697
70°	1569	1533	1548
75°	1464	1395	1238
80°	1316	1142	1224
85°	976	994	1016



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.2	3.2
10°-20°	181.0	9.2
20°-30°	275.5	14.0
30°-40°	335.5	17.1
40°-50°	353.5	18.0
50°-60°	325.1	16.5
60°-70°	252.5	12.8
70°-80°	141.6	7.2
80°-90°	38.3	1.9
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°	519.7	26.4
0°-40°	855.2	43.5
0°-60°	1533.8	78.0
0°-90°	1966.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1966.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	668	668	668	668	668	
5°	665	664	664	666	667	63
15°	640	640	640	643	645	181
25°	595	595	596	600	604	275
35°	534	533	534	538	543	334
45°	457	456	455	461	466	352
55°	363	362	361	366	372	324
65°	255	253	251	258	266	253
75°	141	139	134	123	119	149
85°	32	32	32	32	33	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	667.9	667.9	667.9	667.9	667.9
2.5°	667.9	667.2	666.6	667.9	669.2
5°	664.6	664.0	664.0	665.9	667.2
7.5°	660.7	660.0	660.0	662.0	664.0
10°	654.7	654.7	654.7	656.7	658.7
12.5°	648.2	647.5	648.2	650.1	652.1
15°	640.3	639.6	640.3	642.9	644.9
17.5°	631.0	629.7	630.4	633.7	636.3
20°	620.5	619.9	620.5	623.8	627.1
22.5°	608.7	608.0	608.0	612.0	615.9
25°	594.9	594.9	596.2	599.5	604.1
27.5°	582.4	581.0	582.4	586.3	590.3
30°	567.9	566.6	566.6	571.8	575.8
32.5°	552.1	550.1	551.4	555.4	560.6
35°	534.3	533.0	533.7	538.3	542.9
37.5°	515.9	515.2	515.9	520.5	526.4
40°	497.5	496.2	496.8	502.1	507.3
42.5°	477.7	477.1	476.4	481.7	488.3
45°	456.7	456.0	455.4	460.6	465.9
47.5°	435.0	433.6	433.0	438.2	445.5
50°	411.3	411.3	410.6	414.6	421.1
52.5°	388.2	386.9	385.6	390.2	397.4
55°	363.2	361.9	360.6	365.9	372.4
57.5°	337.6	336.3	334.9	338.9	346.8
60°	311.2	309.9	306.6	313.2	322.4
62.5°	284.3	281.6	280.3	286.2	293.5
65°	255.3	253.3	250.7	257.9	266.5
67.5°	227.7	224.4	223.1	228.3	234.3
70°	199.4	196.8	194.8	195.4	196.8
72.5°	169.8	168.5	166.5	160.6	159.2
75°	140.8	138.8	134.2	123.1	119.1
77.5°	113.2	111.9	102.7	93.4	94.8
80°	84.9	83.6	73.7	75.7	79.0
82.5°	59.2	55.9	54.6	54.0	55.9
85°	31.6	31.6	32.2	32.2	32.9
87.5°	13.2	13.2	14.5	14.5	14.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)