

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: P184454

Luminaire Tested: **66EN-LD2-20-UNV-L850-CD1-U**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P184454
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-L850-CD1-U
Description: METALUX ENCOUNTER 600X600 TROFFER

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

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2182.5 lumens
Efficiency: N/A
Efficacy: 132.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.39
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

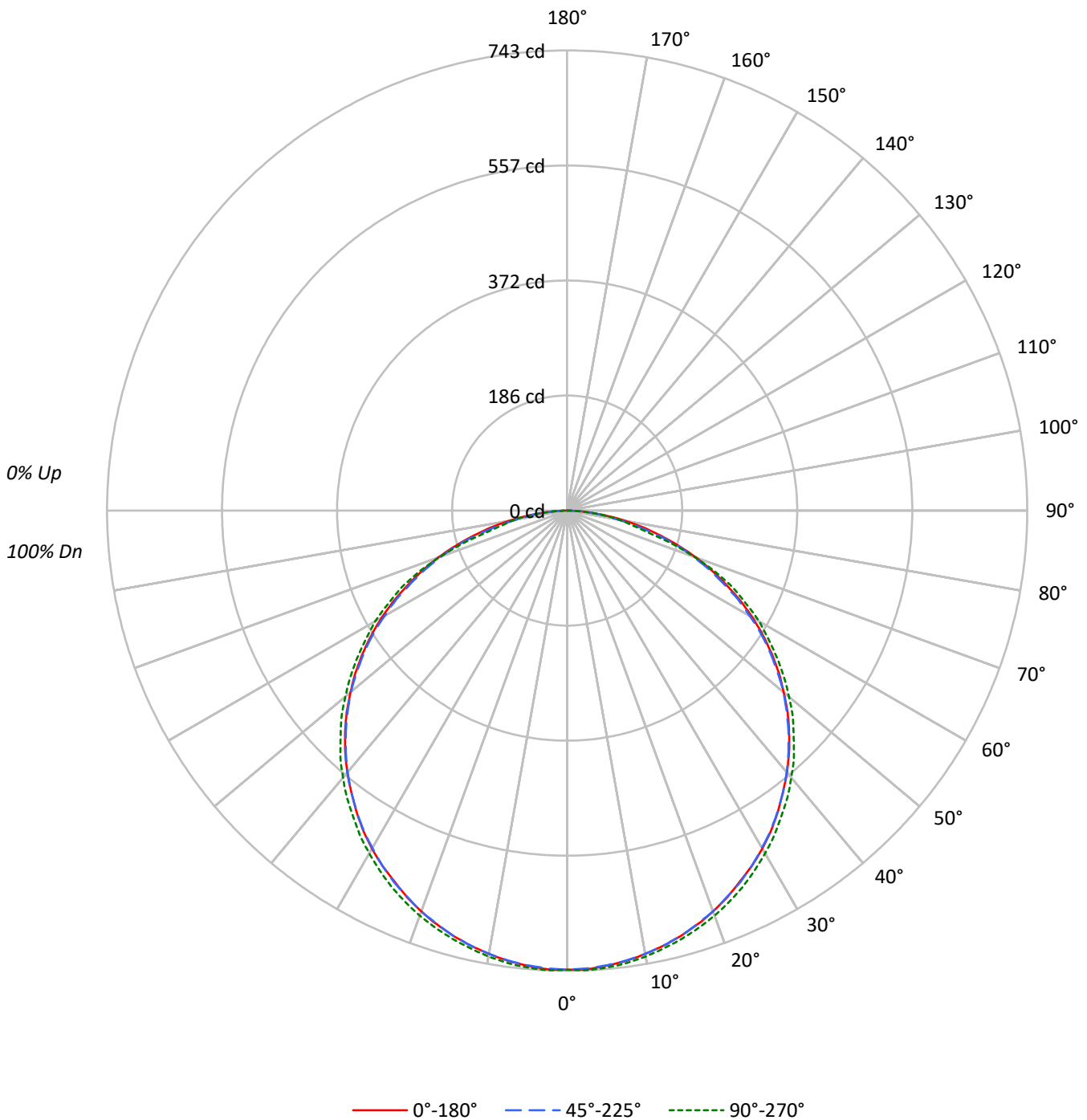
Input Watts (W): 16.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1995	1995	1995
5°	1993	1991	2001
10°	1986	1986	1998
15°	1980	1980	1994
20°	1973	1973	1993
25°	1961	1965	1991
30°	1959	1954	1986
35°	1948	1946	1980
40°	1940	1937	1978
45°	1929	1923	1968
50°	1911	1908	1957
55°	1892	1878	1939
60°	1859	1832	1926
65°	1805	1772	1883
70°	1741	1701	1718
75°	1625	1549	1375
80°	1460	1268	1358
85°	1084	1105	1127



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.1	3.2
10°-20°	200.9	9.2
20°-30°	305.8	14.0
30°-40°	372.4	17.1
40°-50°	392.4	18.0
50°-60°	360.9	16.5
60°-70°	280.3	12.8
70°-80°	157.1	7.2
80°-90°	42.6	2.0
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°	576.9	26.4
0°-40°	949.3	43.5
0°-60°	1702.5	78.0
0°-90°	2182.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2182.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	741	741	741	741	741	
5°	738	737	737	739	741	70
15°	711	710	711	714	716	201
25°	660	660	662	665	670	305
35°	593	592	592	598	603	371
45°	507	506	505	511	517	391
55°	403	402	400	406	413	360
65°	283	281	278	286	296	281
75°	156	154	149	137	132	166
85°	35	35	36	36	36	44
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	741.4	741.4	741.4	741.4	741.4
2.5°	741.4	740.6	739.9	741.4	742.8
5°	737.7	737.0	737.0	739.2	740.6
7.5°	733.3	732.6	732.6	734.8	737.0
10°	726.8	726.8	726.8	729.0	731.1
12.5°	719.5	718.7	719.5	721.6	723.8
15°	710.7	710.0	710.7	713.6	715.8
17.5°	700.5	699.0	699.7	703.4	706.3
20°	688.8	688.0	688.8	692.4	696.1
22.5°	675.6	674.9	674.9	679.3	683.7
25°	660.3	660.3	661.8	665.4	670.5
27.5°	646.4	645.0	646.4	650.8	655.2
30°	630.3	628.9	628.9	634.7	639.1
32.5°	612.8	610.6	612.1	616.5	622.3
35°	593.1	591.6	592.4	597.5	602.6
37.5°	572.6	571.9	572.6	577.8	584.3
40°	552.2	550.7	551.5	557.3	563.1
42.5°	530.3	529.5	528.8	534.7	542.0
45°	506.9	506.2	505.4	511.3	517.1
47.5°	482.8	481.3	480.6	486.5	494.5
50°	456.5	456.5	455.8	460.2	467.5
52.5°	430.9	429.5	428.0	433.1	441.2
55°	403.2	401.7	400.3	406.1	413.4
57.5°	374.7	373.2	371.8	376.2	384.9
60°	345.5	344.0	340.4	347.7	357.9
62.5°	315.5	312.6	311.2	317.7	325.8
65°	283.4	281.2	278.3	286.3	295.8
67.5°	252.7	249.1	247.6	253.5	260.0
70°	221.3	218.4	216.2	216.9	218.4
72.5°	188.4	187.0	184.8	178.2	176.8
75°	156.3	154.1	149.0	136.6	132.2
77.5°	125.6	124.2	113.9	103.7	105.2
80°	94.2	92.8	81.8	84.0	87.6
82.5°	65.7	62.1	60.6	59.9	62.1
85°	35.1	35.1	35.8	35.8	36.5
87.5°	14.6	14.6	16.1	16.1	16.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)