

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: P184453

Luminaire Tested: **66EN-LD2-20-UNV-L840-CD1-U**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P184453
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-L840-CD1-U
Description: METALUX ENCOUNTER 600X600 TROFFER

Light Source: EATON LED 4000K
Ballast/Driver: OSRAM ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2005.6 lumens
Efficiency: N/A
Efficacy: 121.5 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

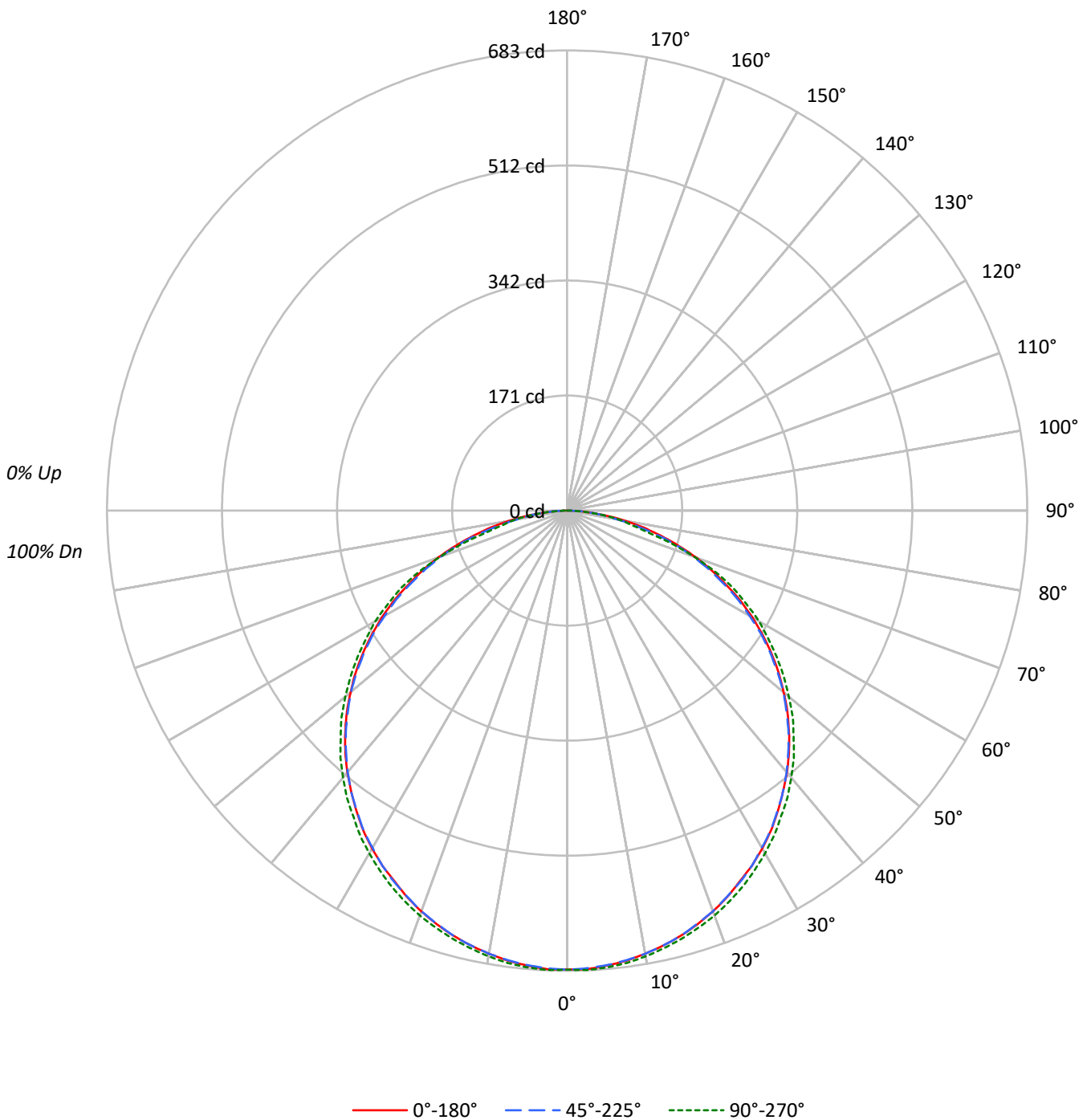
Input Watts (W): 16.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1833	1833	1833
5°	1831	1829	1838
10°	1825	1825	1836
15°	1819	1819	1833
20°	1812	1812	1832
25°	1802	1806	1830
30°	1800	1796	1825
35°	1790	1788	1819
40°	1782	1780	1818
45°	1773	1768	1808
50°	1756	1753	1798
55°	1738	1726	1782
60°	1709	1683	1770
65°	1658	1628	1731
70°	1600	1563	1579
75°	1493	1423	1263
80°	1342	1165	1247
85°	994	1016	1037



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.4	3.2
10°-20°	184.6	9.2
20°-30°	281.0	14.0
30°-40°	342.2	17.1
40°-50°	360.5	18.0
50°-60°	331.6	16.5
60°-70°	257.6	12.8
70°-80°	144.4	7.2
80°-90°	39.1	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°	530.1	26.4
0°-40°	872.3	43.5
0°-60°	1564.5	78.0
0°-90°	2005.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2005.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	681	681	681	681	681	
5°	678	677	677	679	681	64
15°	653	652	653	656	658	184
25°	607	607	608	612	616	280
35°	545	544	544	549	554	341
45°	466	465	464	470	475	359
55°	370	369	368	373	380	331
65°	260	258	256	263	272	258
75°	144	142	137	126	122	152
85°	32	32	33	33	34	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	681.3	681.3	681.3	681.3	681.3
2.5°	681.3	680.6	679.9	681.3	682.6
5°	677.9	677.2	677.2	679.2	680.6
7.5°	673.9	673.2	673.2	675.2	677.2
10°	667.8	667.8	667.8	669.8	671.9
12.5°	661.1	660.4	661.1	663.1	665.1
15°	653.1	652.4	653.1	655.8	657.8
17.5°	643.7	642.3	643.0	646.4	649.0
20°	632.9	632.3	632.9	636.3	639.6
22.5°	620.8	620.2	620.2	624.2	628.2
25°	606.8	606.8	608.1	611.5	616.2
27.5°	594.0	592.7	594.0	598.0	602.1
30°	579.2	577.9	577.9	583.3	587.3
32.5°	563.1	561.1	562.5	566.5	571.9
35°	545.0	543.7	544.3	549.0	553.7
37.5°	526.2	525.5	526.2	530.9	537.0
40°	507.4	506.1	506.7	512.1	517.5
42.5°	487.3	486.6	485.9	491.3	498.0
45°	465.8	465.1	464.5	469.8	475.2
47.5°	443.7	442.3	441.6	447.0	454.4
50°	419.5	419.5	418.8	422.8	429.6
52.5°	396.0	394.7	393.3	398.0	405.4
55°	370.5	369.2	367.8	373.2	379.9
57.5°	344.3	343.0	341.6	345.7	353.7
60°	317.5	316.1	312.8	319.5	328.9
62.5°	290.0	287.3	285.9	292.0	299.4
65°	260.4	258.4	255.7	263.1	271.8
67.5°	232.2	228.9	227.5	232.9	238.9
70°	203.4	200.7	198.7	199.3	200.7
72.5°	173.2	171.8	169.8	163.8	162.4
75°	143.6	141.6	136.9	125.5	121.5
77.5°	115.4	114.1	104.7	95.3	96.7
80°	86.6	85.2	75.2	77.2	80.5
82.5°	60.4	57.1	55.7	55.0	57.1
85°	32.2	32.2	32.9	32.9	33.6
87.5°	13.4	13.4	14.8	14.8	14.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)