

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: P184451

Luminaire Tested: **66EN-LD2-20-UNV-L830-CD1-U**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P184451
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-L830-CD1-U
Description: METALUX ENCOUNTER 600X600 TROFFER

Light Source: EATON LED 3000K
Ballast/Driver: OSRAM ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1907.2 lumens
Efficiency: N/A
Efficacy: 115.6 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

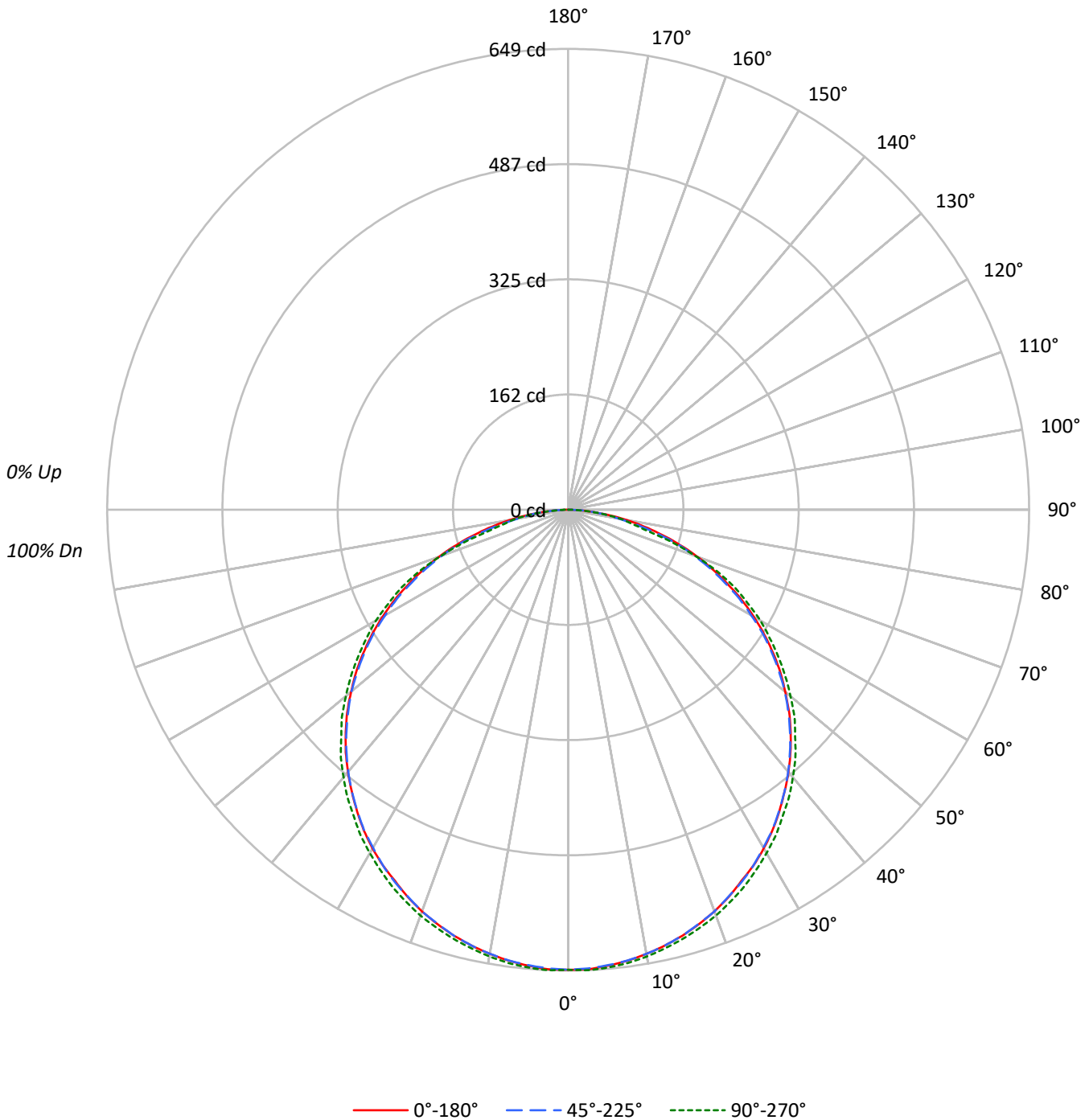
Input Watts (W): 16.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1743	1743	1743
5°	1742	1740	1748
10°	1735	1735	1746
15°	1730	1730	1743
20°	1724	1724	1742
25°	1713	1717	1740
30°	1711	1708	1735
35°	1703	1701	1730
40°	1695	1693	1729
45°	1686	1681	1720
50°	1670	1667	1710
55°	1653	1641	1695
60°	1625	1601	1683
65°	1577	1549	1646
70°	1522	1486	1501
75°	1420	1354	1201
80°	1275	1108	1187
85°	945	966	985



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.3	3.2
10°-20°	175.6	9.2
20°-30°	267.3	14.0
30°-40°	325.4	17.1
40°-50°	342.9	18.0
50°-60°	315.4	16.5
60°-70°	245.0	12.8
70°-80°	137.3	7.2
80°-90°	37.2	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°	504.1	26.4
0°-40°	829.5	43.5
0°-60°	1487.8	78.0
0°-90°	1907.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1907.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	648	648	648	648	648	
5°	645	644	644	646	647	61
15°	621	620	621	624	626	175
25°	577	577	578	582	586	266
35°	518	517	518	522	527	324
45°	443	442	442	447	452	342
55°	352	351	350	355	361	315
65°	248	246	243	250	258	245
75°	137	135	130	119	116	145
85°	31	31	31	31	32	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	647.9	647.9	647.9	647.9	647.9
2.5°	647.9	647.2	646.6	647.9	649.1
5°	644.7	644.0	644.0	645.9	647.2
7.5°	640.8	640.2	640.2	642.1	644.0
10°	635.1	635.1	635.1	637.0	638.9
12.5°	628.7	628.1	628.7	630.6	632.5
15°	621.1	620.4	621.1	623.6	625.5
17.5°	612.1	610.8	611.5	614.7	617.2
20°	601.9	601.3	601.9	605.1	608.3
22.5°	590.4	589.8	589.8	593.6	597.4
25°	577.0	577.0	578.3	581.5	585.9
27.5°	564.9	563.6	564.9	568.7	572.5
30°	550.8	549.6	549.6	554.7	558.5
32.5°	535.5	533.6	534.9	538.7	543.8
35°	518.3	517.0	517.7	522.1	526.6
37.5°	500.4	499.8	500.4	504.9	510.6
40°	482.5	481.3	481.9	487.0	492.1
42.5°	463.4	462.8	462.1	467.2	473.6
45°	443.0	442.3	441.7	446.8	451.9
47.5°	421.9	420.6	420.0	425.1	432.1
50°	398.9	398.9	398.3	402.1	408.5
52.5°	376.6	375.3	374.0	378.5	385.5
55°	352.3	351.1	349.8	354.9	361.3
57.5°	327.4	326.2	324.9	328.7	336.4
60°	301.9	300.6	297.4	303.8	312.8
62.5°	275.7	273.2	271.9	277.7	284.7
65°	247.7	245.7	243.2	250.2	258.5
67.5°	220.8	217.7	216.4	221.5	227.2
70°	193.4	190.8	188.9	189.6	190.8
72.5°	164.7	163.4	161.5	155.7	154.5
75°	136.6	134.7	130.2	119.4	115.5
77.5°	109.8	108.5	99.6	90.6	91.9
80°	82.3	81.1	71.5	73.4	76.6
82.5°	57.4	54.3	53.0	52.3	54.3
85°	30.6	30.6	31.3	31.3	31.9
87.5°	12.8	12.8	14.0	14.0	14.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)