

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: P184466

Luminaire Tested: **66EN-LD2-34-UNV-L830-CD1-U**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P184466
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-LD2-34-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: 3166.2 lumens
Efficiency: N/A
Efficacy: 111.1 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

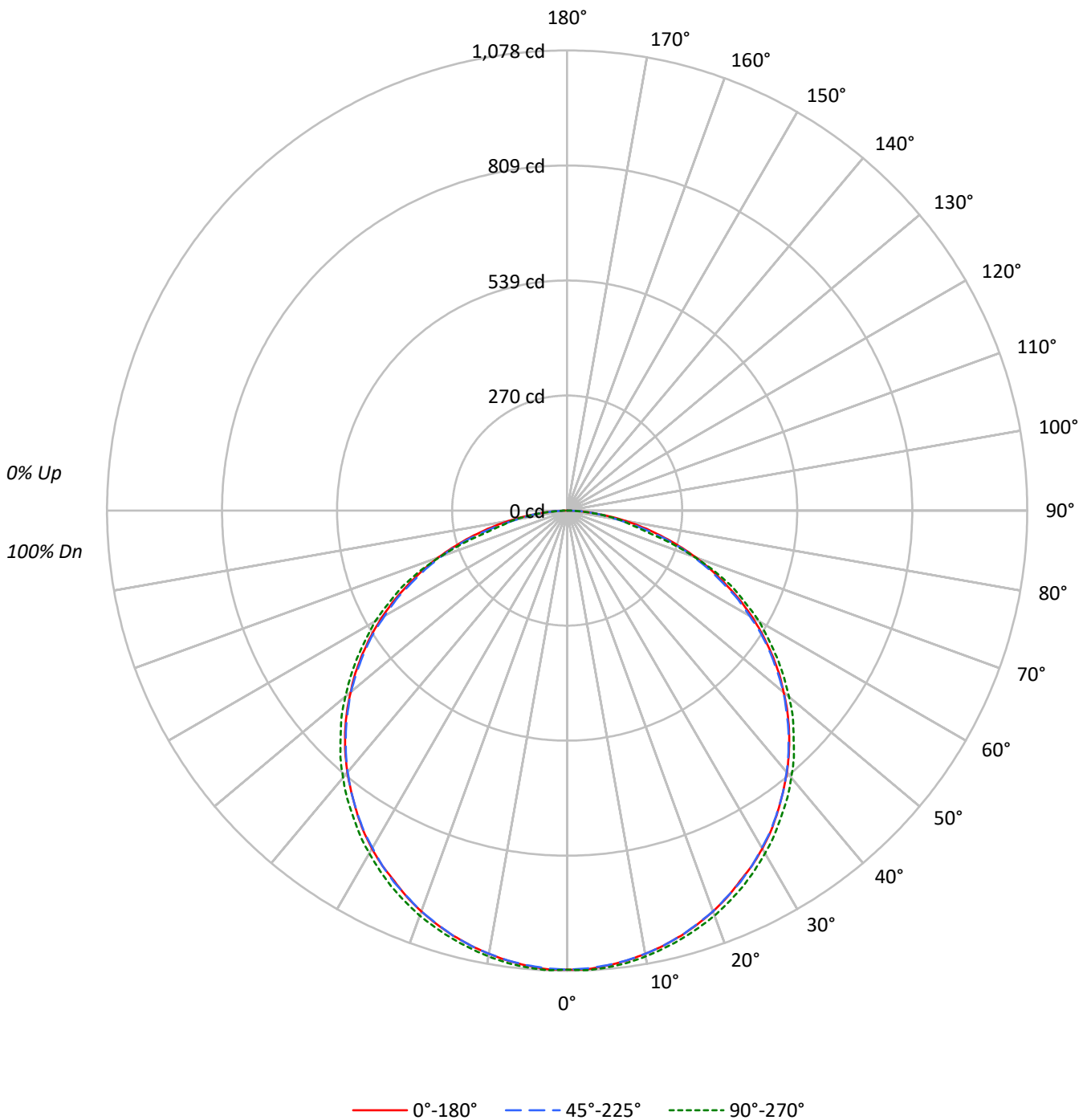
Input Watts (W): 28.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2894	2894	2894
5°	2891	2888	2903
10°	2881	2881	2898
15°	2872	2872	2893
20°	2861	2861	2892
25°	2844	2850	2888
30°	2842	2835	2881
35°	2826	2823	2872
40°	2814	2810	2870
45°	2799	2791	2855
50°	2773	2768	2839
55°	2744	2724	2814
60°	2697	2658	2794
65°	2618	2571	2732
70°	2526	2467	2493
75°	2358	2248	1994
80°	2118	1839	1971
85°	1572	1602	1636



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.7	3.2
10°-20°	291.5	9.2
20°-30°	443.7	14.0
30°-40°	540.2	17.1
40°-50°	569.2	18.0
50°-60°	523.5	16.5
60°-70°	406.7	12.8
70°-80°	228.0	7.2
80°-90°	61.7	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°	836.9	26.4
0°-40°	1377.1	43.5
0°-60°	2469.9	78.0
0°-90°	3166.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3166.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1076	1076	1076	1076	1076	
5°	1070	1069	1069	1072	1074	102
15°	1031	1030	1031	1035	1038	291
25°	958	958	960	965	973	442
35°	860	858	859	867	874	539
45°	735	734	733	742	750	567
55°	585	583	581	589	600	522
65°	411	408	404	415	429	407
75°	227	224	216	198	192	240
85°	51	51	52	52	53	64
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1075.5	1075.5	1075.5	1075.5	1075.5
2.5°	1075.5	1074.5	1073.4	1075.5	1077.6
5°	1070.2	1069.2	1069.2	1072.3	1074.5
7.5°	1063.9	1062.8	1062.8	1066.0	1069.2
10°	1054.3	1054.3	1054.3	1057.5	1060.7
12.5°	1043.7	1042.7	1043.7	1046.9	1050.1
15°	1031.0	1030.0	1031.0	1035.2	1038.4
17.5°	1016.2	1014.1	1015.1	1020.4	1024.7
20°	999.2	998.2	999.2	1004.5	1009.8
22.5°	980.1	979.1	979.1	985.4	991.8
25°	957.9	957.9	960.0	965.3	972.7
27.5°	937.8	935.6	937.8	944.1	950.5
30°	914.5	912.3	912.3	920.8	927.2
32.5°	889.0	885.8	888.0	894.3	902.8
35°	860.4	858.3	859.4	866.8	874.2
37.5°	830.7	829.7	830.7	838.2	847.7
40°	801.1	799.0	800.0	808.5	817.0
42.5°	769.3	768.2	767.2	775.6	786.2
45°	735.4	734.3	733.3	741.7	750.2
47.5°	700.4	698.3	697.2	705.7	717.4
50°	662.3	662.3	661.2	667.6	678.2
52.5°	625.2	623.1	620.9	628.4	640.0
55°	584.9	582.8	580.7	589.1	599.7
57.5°	543.6	541.5	539.3	545.7	558.4
60°	501.2	499.1	493.8	504.4	519.2
62.5°	457.8	453.5	451.4	460.9	472.6
65°	411.1	408.0	403.7	415.4	429.1
67.5°	366.6	361.3	359.2	367.7	377.2
70°	321.1	316.8	313.6	314.7	316.8
72.5°	273.4	271.3	268.1	258.5	256.4
75°	226.8	223.6	216.2	198.1	191.8
77.5°	182.3	180.1	165.3	150.5	152.6
80°	136.7	134.6	118.7	121.9	127.2
82.5°	95.4	90.1	87.9	86.9	90.1
85°	50.9	50.9	51.9	51.9	53.0
87.5°	21.2	21.2	23.3	23.3	23.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)