

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: P184468

Luminaire Tested: **66EN-LD2-34-UNV-L840-CD1-U**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P184468
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-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: 3329.4 lumens
Efficiency: N/A
Efficacy: 116.8 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

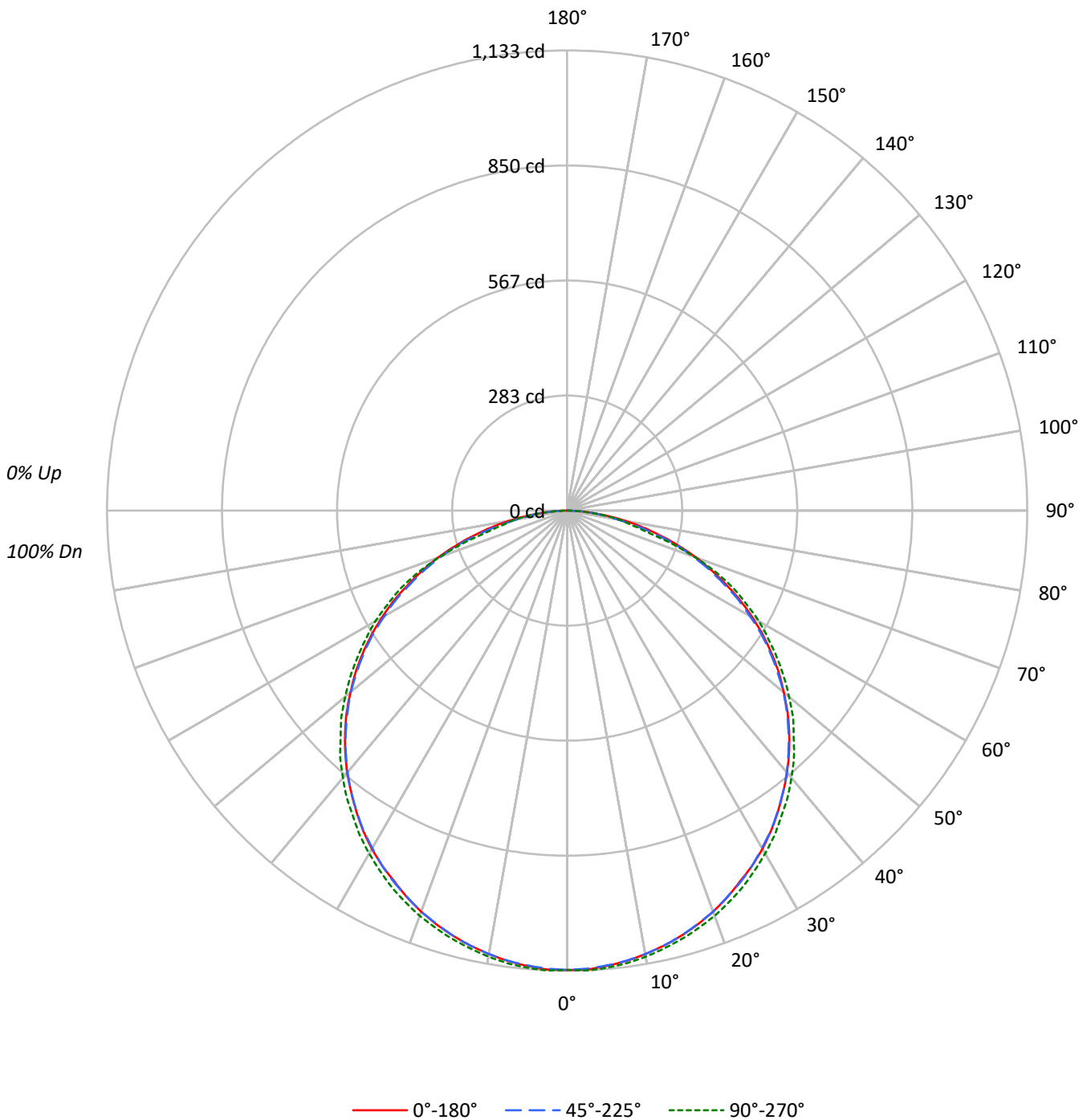
Input Watts (W): 28.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3043	3043	3043
5°	3040	3037	3052
10°	3030	3030	3048
15°	3020	3020	3042
20°	3009	3009	3041
25°	2991	2997	3037
30°	2988	2981	3030
35°	2972	2968	3020
40°	2959	2955	3018
45°	2943	2935	3002
50°	2915	2911	2985
55°	2886	2865	2959
60°	2836	2794	2939
65°	2753	2703	2874
70°	2656	2595	2622
75°	2479	2363	2097
80°	2227	1934	2072
85°	1652	1686	1720



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.0	3.2
10°-20°	306.5	9.2
20°-30°	466.5	14.0
30°-40°	568.1	17.1
40°-50°	598.5	18.0
50°-60°	550.5	16.5
60°-70°	427.6	12.8
70°-80°	239.7	7.2
80°-90°	64.9	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°	880.0	26.4
0°-40°	1448.1	43.5
0°-60°	2597.2	78.0
0°-90°	3329.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3329.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1131	1131	1131	1131	1131	
5°	1125	1124	1124	1128	1130	107
15°	1084	1083	1084	1089	1092	306
25°	1007	1007	1010	1015	1023	465
35°	905	902	904	911	919	566
45°	773	772	771	780	789	596
55°	615	613	611	620	631	549
65°	432	429	424	437	451	428
75°	238	235	227	208	202	253
85°	54	54	55	55	56	67
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1131.0	1131.0	1131.0	1131.0	<i>1131.0</i>
2.5°	<i>1131.0</i>	<i>1129.8</i>	<i>1128.7</i>	<i>1131.0</i>	<i>1133.2</i>
5°	1125.4	1124.3	1124.3	1127.6	<i>1129.8</i>
7.5°	1118.7	1117.6	1117.6	1120.9	<i>1124.3</i>
10°	1108.7	1108.7	1108.7	1112.0	<i>1115.4</i>
12.5°	1097.5	1096.4	1097.5	1100.9	<i>1104.2</i>
15°	1084.2	1083.0	1084.2	1088.6	<i>1092.0</i>
17.5°	1068.6	1066.3	1067.4	1073.0	<i>1077.5</i>
20°	1050.7	1049.6	1050.7	1056.3	<i>1061.9</i>
22.5°	1030.7	1029.6	1029.6	1036.2	<i>1042.9</i>
25°	1007.3	1007.3	1009.5	1015.1	<i>1022.9</i>
27.5°	986.1	983.9	986.1	992.8	<i>999.5</i>
30°	961.6	959.4	959.4	968.3	<i>975.0</i>
32.5°	934.8	931.5	933.7	940.4	<i>949.3</i>
35°	904.8	902.5	903.6	911.4	<i>919.2</i>
37.5°	873.6	872.4	873.6	881.4	<i>891.4</i>
40°	842.4	840.1	841.3	850.2	<i>859.1</i>
42.5°	808.9	807.8	806.7	815.6	<i>826.8</i>
45°	773.3	772.2	771.1	780.0	<i>788.9</i>
47.5°	736.5	734.3	733.2	742.1	<i>754.3</i>
50°	696.4	696.4	695.3	702.0	<i>713.1</i>
52.5°	657.4	655.2	652.9	660.7	<i>673.0</i>
55°	615.1	612.8	610.6	619.5	<i>630.7</i>
57.5°	571.6	569.4	567.1	573.8	<i>587.2</i>
60°	527.0	524.8	519.2	530.4	<i>546.0</i>
62.5°	481.4	476.9	474.7	484.7	<i>497.0</i>
65°	432.3	429.0	424.5	436.8	<i>451.3</i>
67.5°	385.5	380.0	377.7	386.6	<i>396.7</i>
70°	337.6	333.2	329.8	330.9	<i>333.2</i>
72.5°	287.5	285.2	281.9	271.9	<i>269.6</i>
75°	238.4	235.1	227.3	208.4	<i>201.7</i>
77.5°	191.6	189.4	173.8	158.2	<i>160.5</i>
80°	143.7	141.5	124.8	128.1	<i>133.7</i>
82.5°	100.3	94.7	92.5	91.4	<i>94.7</i>
85°	53.5	53.5	54.6	54.6	<i>55.7</i>
87.5°	22.3	22.3	24.5	24.5	<i>24.5</i>
90°	0.0	0.0	0.0	0.0	<i>0.0</i>

(END OF REPORT)