

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: P184537

Luminaire Tested: **36EN-LD2-23-UNV-L835-CD1-U**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P184537
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34514)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: 36EN-LD2-23-UNV-L835-CD1-U
Description: METALUX ENCOUNTER 300X600 TROFFER

Light Source: EATON LED 3500K
Ballast/Driver: OSRAM ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2312.1 lumens
Efficiency: N/A
Efficacy: 112.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.38
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

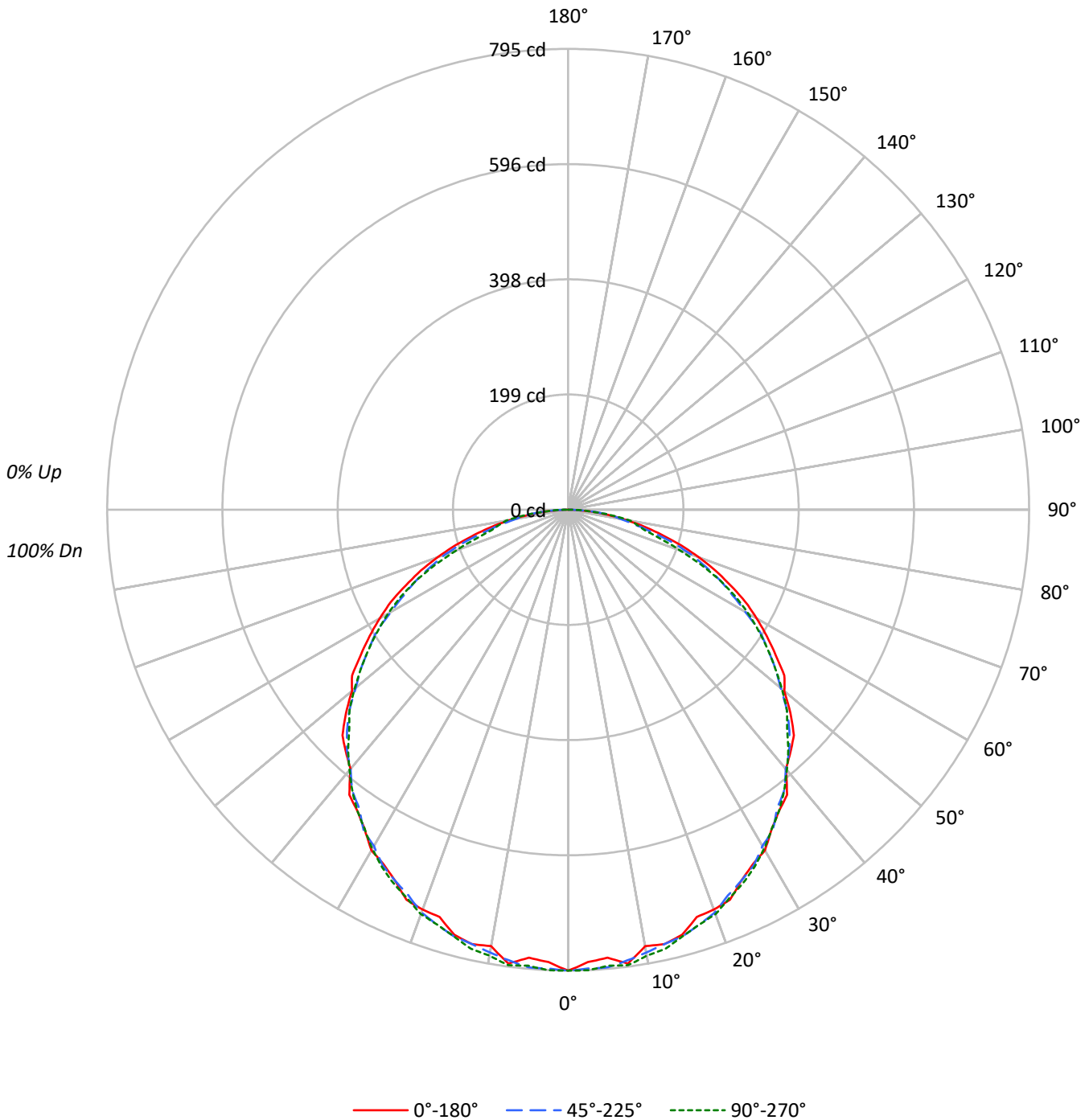
Input Watts (W): 20.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	90	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	69	60	54	66	59	53	64	57	52	61	56	52	49
5	75	62	53	46	73	61	53	46	59	52	46	57	50	45	55	49	45	43
6	70	56	47	40	68	55	47	40	53	46	40	52	45	40	50	44	39	37
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	46	39	35	33
8	60	46	38	32	58	46	37	32	44	37	31	43	36	31	42	36	31	29
9	56	42	34	29	55	42	34	28	41	33	28	40	33	28	39	32	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4280	4280	4280
5°	4191	4281	4266
10°	4179	4239	4270
15°	4230	4245	4245
20°	4204	4236	4252
25°	4194	4194	4227
30°	4216	4164	4199
35°	4165	4129	4165
40°	4102	4102	4122
45°	4190	4106	4063
50°	4074	4004	4027
55°	4096	3939	3939
60°	4041	3801	3861
65°	3930	3683	3683
70°	3762	3544	3238
75°	3468	3121	2832
80°	3102	2845	3360
85°	2575	2921	2748



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.2	3.3
10°-20°	214.7	9.3
20°-30°	326.8	14.1
30°-40°	395.9	17.1
40°-50°	415.3	18.0
50°-60°	379.8	16.4
60°-70°	290.3	12.6
70°-80°	163.2	7.1
80°-90°	50.9	2.2
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°	616.7	26.7
0°-40°	1012.6	43.8
0°-60°	1807.7	78.2
0°-90°	2312.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2312.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	795	795	795	795	795	
5°	776	790	792	798	790	74
15°	759	759	762	762	762	213
25°	706	709	706	712	712	327
35°	634	631	628	634	634	398
45°	550	542	539	534	534	420
55°	436	431	420	420	420	390
65°	309	300	289	286	289	306
75°	167	161	150	139	136	177
85°	42	42	47	44	44	48
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	795.2	795.2	795.2	795.2	795.2
2.5°	781.3	792.4	792.4	798.0	795.2
5°	775.7	789.6	792.4	798.0	789.6
7.5°	789.6	786.9	784.1	789.6	792.4
10°	764.6	775.7	775.7	789.6	781.3
12.5°	767.4	770.2	767.4	767.4	775.7
15°	759.1	759.1	761.8	761.8	761.8
17.5°	736.8	747.9	750.7	753.5	750.7
20°	734.0	736.8	739.6	742.4	742.4
22.5°	728.5	722.9	720.1	731.3	725.7
25°	706.2	709.0	706.2	711.8	711.8
27.5°	689.5	689.5	692.3	689.5	695.1
30°	678.4	675.6	670.1	675.6	675.6
32.5°	653.4	656.2	656.2	653.4	653.4
35°	633.9	631.2	628.4	633.9	633.9
37.5°	620.0	606.1	611.7	608.9	611.7
40°	583.9	592.2	583.9	583.9	586.7
42.5°	567.2	564.4	564.4	561.6	561.6
45°	550.5	542.2	539.4	533.8	533.8
47.5°	519.9	519.9	511.6	506.0	511.6
50°	486.6	489.4	478.2	475.5	481.0
52.5°	469.9	461.6	450.4	453.2	450.4
55°	436.5	431.0	419.8	419.8	419.8
57.5°	405.9	403.2	392.0	389.3	389.3
60°	375.4	369.8	353.1	355.9	358.7
62.5°	344.8	336.4	319.7	325.3	325.3
65°	308.6	300.3	289.2	286.4	289.2
67.5°	275.3	264.1	255.8	253.0	247.5
70°	239.1	233.6	225.2	208.5	205.8
72.5°	203.0	194.6	189.1	169.6	166.8
75°	166.8	161.3	150.1	139.0	136.2
77.5°	133.5	130.7	116.8	116.8	122.3
80°	100.1	97.3	91.8	102.9	108.4
82.5°	69.5	66.7	75.1	77.9	77.9
85°	41.7	41.7	47.3	44.5	44.5
87.5°	16.7	19.5	19.5	22.2	22.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)