

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: P184542

Luminaire Tested: **36EN-LD2-27-UNV-L835-CD1-U**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P184542
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-LD2-27-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: 2693.5 lumens
Efficiency: N/A
Efficacy: 112.2 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

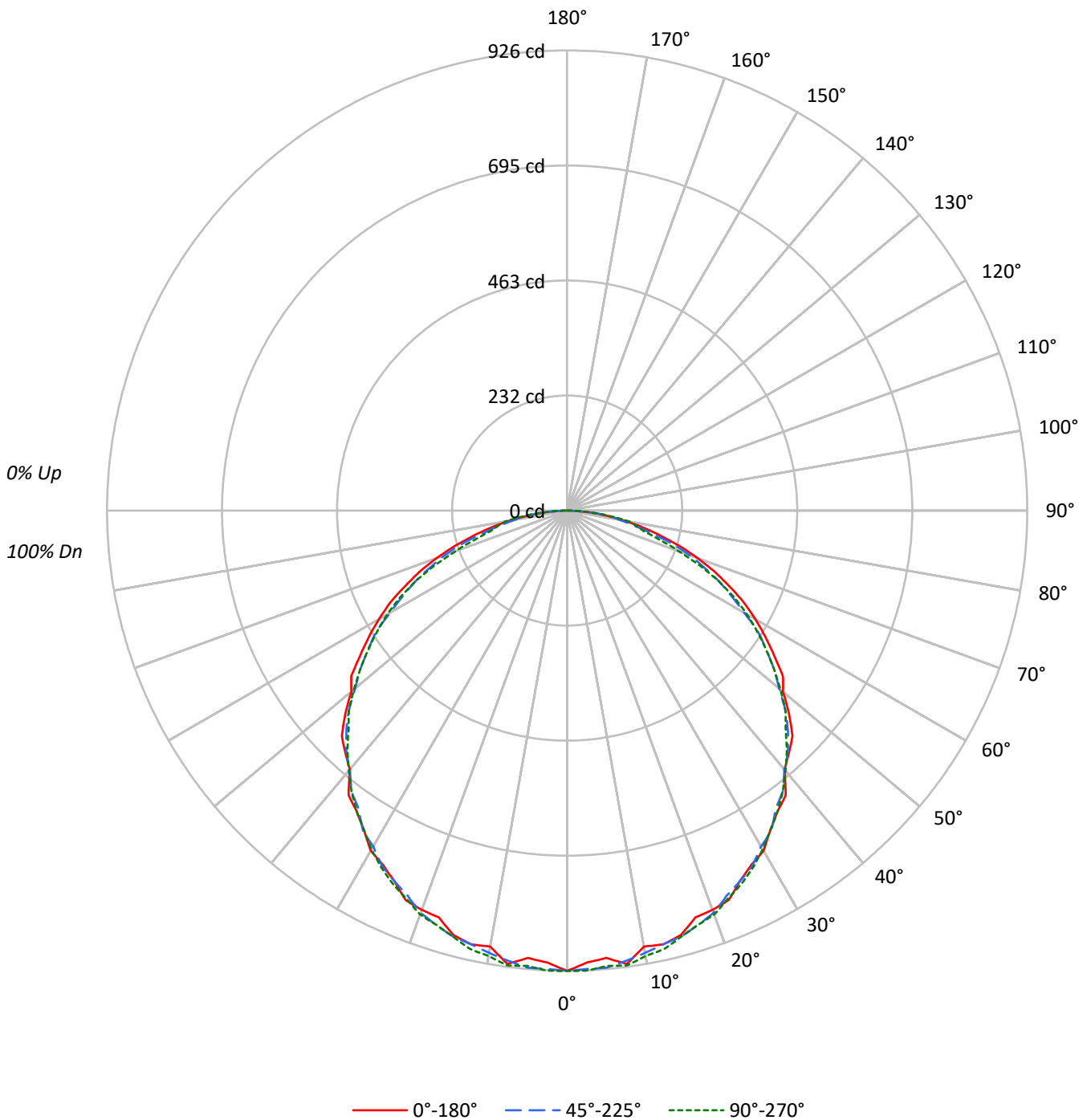
Input Watts (W): 24
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4986	4986	4986
5°	4882	4987	4970
10°	4868	4939	4974
15°	4927	4945	4945
20°	4897	4935	4953
25°	4885	4885	4924
30°	4911	4851	4891
35°	4852	4809	4852
40°	4779	4779	4801
45°	4881	4783	4733
50°	4746	4665	4691
55°	4771	4589	4589
60°	4707	4428	4497
65°	4578	4290	4290
70°	4384	4129	3772
75°	4040	3637	3300
80°	3614	3313	3914
85°	3001	3402	3199



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.6	3.3
10°-20°	250.1	9.3
20°-30°	380.7	14.1
30°-40°	461.2	17.1
40°-50°	483.8	18.0
50°-60°	442.5	16.4
60°-70°	338.2	12.6
70°-80°	190.1	7.1
80°-90°	59.3	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°	718.4	26.7
0°-40°	1179.6	43.8
0°-60°	2105.9	78.2
0°-90°	2693.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2693.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	926	926	926	926	926	
5°	904	920	923	930	920	87
15°	884	884	888	888	888	248
25°	823	826	823	829	829	381
35°	738	735	732	738	738	463
45°	641	632	628	622	622	489
55°	508	502	489	489	489	454
65°	360	350	337	334	337	356
75°	194	188	175	162	159	207
85°	49	49	55	52	52	56
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	926.4	926.4	926.4	926.4	926.4
2.5°	910.2	923.1	923.1	929.6	926.4
5°	903.7	919.9	923.1	929.6	919.9
7.5°	919.9	916.6	913.4	919.9	923.1
10°	890.7	903.7	903.7	919.9	910.2
12.5°	894.0	897.2	894.0	894.0	903.7
15°	884.2	884.2	887.5	887.5	887.5
17.5°	858.3	871.3	874.5	877.8	874.5
20°	855.1	858.3	861.6	864.8	864.8
22.5°	848.6	842.1	838.9	851.9	845.4
25°	822.7	825.9	822.7	829.2	829.2
27.5°	803.3	803.3	806.5	803.3	809.7
30°	790.3	787.1	780.6	787.1	787.1
32.5°	761.2	764.4	764.4	761.2	761.2
35°	738.5	735.3	732.0	738.5	738.5
37.5°	722.3	706.1	712.6	709.3	712.6
40°	680.2	689.9	680.2	680.2	683.4
42.5°	660.8	657.5	657.5	654.3	654.3
45°	641.3	631.6	628.4	621.9	621.9
47.5°	605.7	605.7	596.0	589.5	596.0
50°	566.8	570.1	557.1	553.9	560.3
52.5°	547.4	537.7	524.7	528.0	524.7
55°	508.5	502.0	489.1	489.1	489.1
57.5°	472.9	469.7	456.7	453.5	453.5
60°	437.3	430.8	411.4	414.6	417.8
62.5°	401.6	391.9	372.5	379.0	379.0
65°	359.5	349.8	336.9	333.6	336.9
67.5°	320.7	307.7	298.0	294.7	288.3
70°	278.6	272.1	262.4	242.9	239.7
72.5°	236.4	226.7	220.3	197.6	194.3
75°	194.3	187.9	174.9	161.9	158.7
77.5°	155.5	152.2	136.0	136.0	142.5
80°	116.6	113.4	106.9	119.8	126.3
82.5°	81.0	77.7	87.5	90.7	90.7
85°	48.6	48.6	55.1	51.8	51.8
87.5°	19.4	22.7	22.7	25.9	25.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)