

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: P184544

Luminaire Tested: **36EN-LD2-27-UNV-L850-CD1-U**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P184544  
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-L850-CD1-U  
Description: METALUX ENCOUNTER 300X600 TROFFER  
  
Light Source: EATON LED 5000K  
Ballast/Driver: OSRAM ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2989.7 lumens  
Efficiency: N/A  
Efficacy: 124.6 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

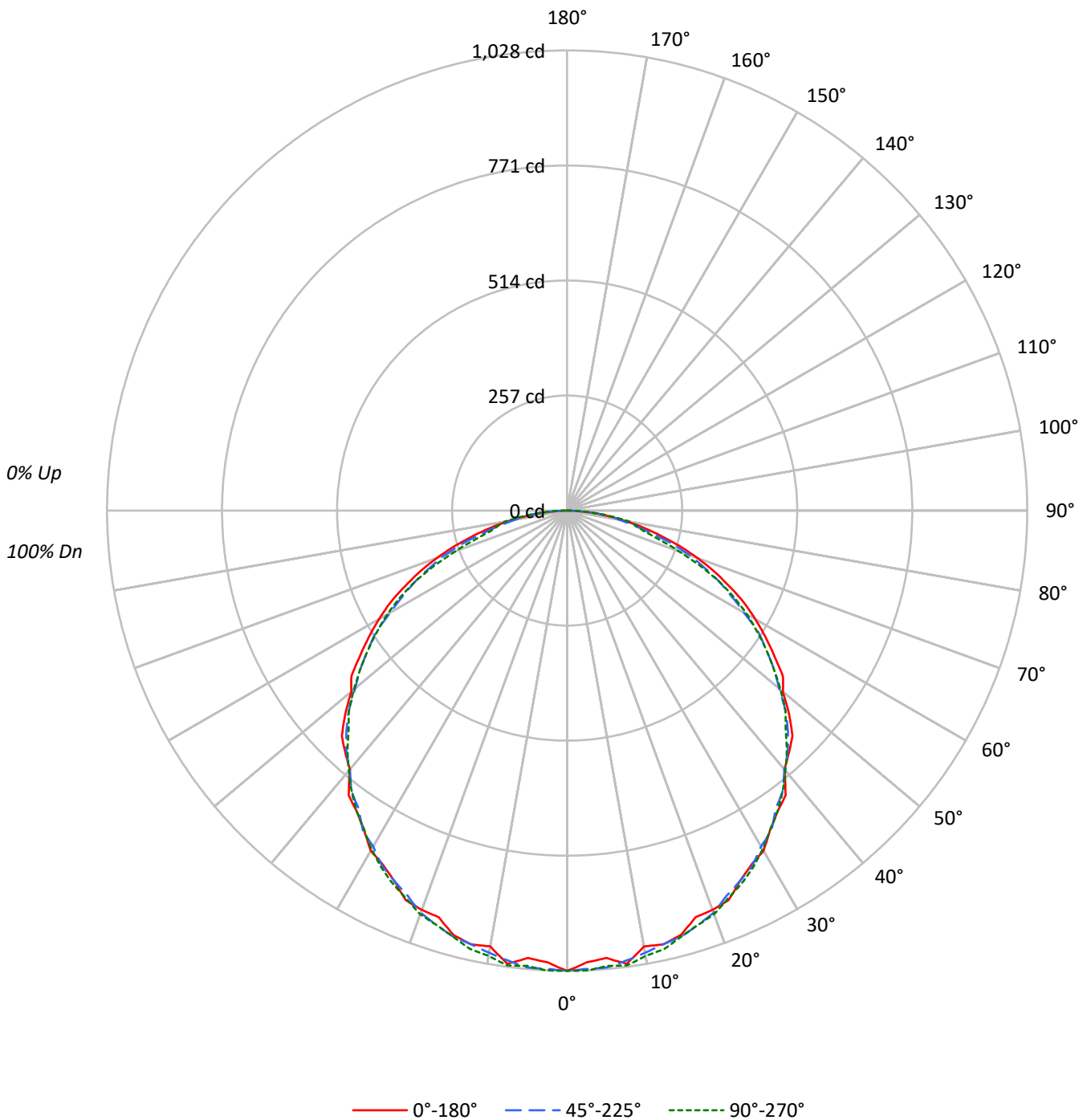
Input Watts (W): 24  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20			20				20			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	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	
1	109	104	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83	83	
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69	69	
3	90	79	71	64	87	77	70	63	74	68	62	72	66	61	69	64	60	58	58	
4	82	70	61	54	80	69	60	54	66	59	53	64	57	52	61	56	52	49	49	
5	75	62	53	46	73	61	53	46	59	52	46	57	50	45	55	49	45	43	43	
6	70	56	47	40	68	55	47	40	53	46	40	52	45	40	50	44	39	37	37	
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	46	39	35	33	33	
8	60	46	38	32	58	46	37	32	44	37	31	43	36	31	42	36	31	29	29	
9	56	42	34	29	55	42	34	28	41	33	28	40	33	28	39	32	28	26	26	
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	25	24	24	

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	5534	5534	5534
5°	5419	5536	5517
10°	5403	5482	5521
15°	5469	5489	5489
20°	5436	5477	5498
25°	5423	5423	5466
30°	5451	5385	5430
35°	5386	5338	5386
40°	5304	5304	5330
45°	5418	5309	5254
50°	5268	5178	5208
55°	5297	5094	5094
60°	5225	4915	4992
65°	5082	4762	4762
70°	4866	4582	4187
75°	4485	4036	3664
80°	4011	3676	4345
85°	3328	3773	3551



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	97.2	3.3
10°-20°	277.6	9.3
20°-30°	422.6	14.1
30°-40°	511.9	17.1
40°-50°	537.0	18.0
50°-60°	491.2	16.4
60°-70°	375.4	12.6
70°-80°	211.0	7.1
80°-90°	65.8	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°	797.4	26.7
0°-40°	1309.4	43.8
0°-60°	2337.5	78.2
0°-90°	2989.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2989.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1028	1028	1028	1028	1028	
5°	1003	1021	1025	1032	1021	96
15°	982	982	985	985	985	275
25°	913	917	913	920	920	422
35°	820	816	812	820	820	514
45°	712	701	698	690	690	543
55°	564	557	543	543	543	504
65°	399	388	374	370	374	395
75°	216	208	194	180	176	229
85°	54	54	61	58	58	63
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1028.3	1028.3	1028.3	1028.3	1028.3
2.5°	1010.3	1024.7	1024.7	1031.8	1028.3
5°	1003.1	1021.1	1024.7	1031.8	1021.1
7.5°	1021.1	1017.5	1013.9	1021.1	1024.7
10°	988.7	1003.1	1003.1	1021.1	1010.3
12.5°	992.3	995.9	992.3	992.3	1003.1
15°	981.5	981.5	985.1	985.1	985.1
17.5°	952.7	967.1	970.7	974.3	970.7
20°	949.2	952.7	956.3	959.9	959.9
22.5°	942.0	934.8	931.2	945.6	938.4
25°	913.2	916.8	913.2	920.4	920.4
27.5°	891.6	891.6	895.2	891.6	898.8
30°	877.2	873.7	866.5	873.7	873.7
32.5°	844.9	848.5	848.5	844.9	844.9
35°	819.7	816.1	812.5	819.7	819.7
37.5°	801.7	783.8	791.0	787.4	791.0
40°	755.0	765.8	755.0	755.0	758.6
42.5°	733.4	729.8	729.8	726.2	726.2
45°	711.9	701.1	697.5	690.3	690.3
47.5°	672.3	672.3	661.5	654.3	661.5
50°	629.2	632.8	618.4	614.8	622.0
52.5°	607.6	596.8	582.4	586.0	582.4
55°	564.5	557.3	542.9	542.9	542.9
57.5°	524.9	521.3	506.9	503.3	503.3
60°	485.4	478.2	456.6	460.2	463.8
62.5°	445.8	435.0	413.5	420.6	420.6
65°	399.1	388.3	373.9	370.3	373.9
67.5°	355.9	341.6	330.8	327.2	320.0
70°	309.2	302.0	291.2	269.6	266.1
72.5°	262.5	251.7	244.5	219.3	215.7
75°	215.7	208.5	194.1	179.8	176.2
77.5°	172.6	169.0	151.0	151.0	158.2
80°	129.4	125.8	118.6	133.0	140.2
82.5°	89.9	86.3	97.1	100.7	100.7
85°	53.9	53.9	61.1	57.5	57.5
87.5°	21.6	25.2	25.2	28.8	28.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)