

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: P184463

Luminaire Tested: **66EN-LD2-30-UNV-L840-CD1-U**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P184463  
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-LD2-30-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: 2952.0 lumens  
Efficiency: N/A  
Efficacy: 118.6 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

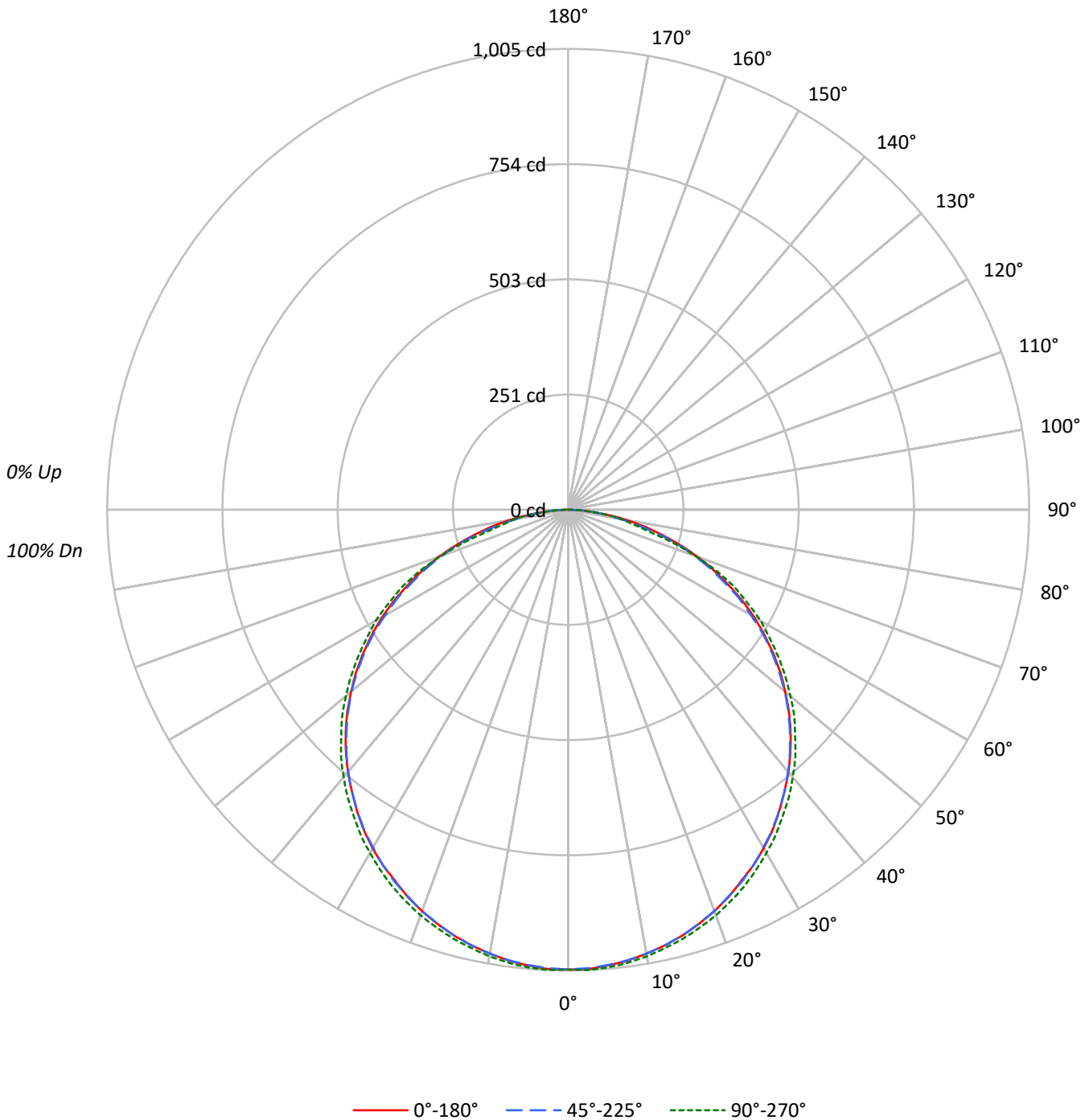
Input Watts (W): 24.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2699	2699	2699
5°	2695	2693	2706
10°	2686	2686	2702
15°	2678	2678	2697
20°	2668	2668	2696
25°	2652	2658	2693
30°	2649	2643	2686
35°	2635	2632	2677
40°	2624	2620	2676
45°	2609	2602	2662
50°	2585	2581	2647
55°	2558	2540	2624
60°	2515	2478	2605
65°	2441	2397	2548
70°	2355	2301	2324
75°	2198	2095	1859
80°	1974	1714	1838
85°	1463	1494	1525



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	94.9	3.2
10°-20°	271.8	9.2
20°-30°	413.7	14.0
30°-40°	503.7	17.1
40°-50°	530.7	18.0
50°-60°	488.1	16.5
60°-70°	379.2	12.8
70°-80°	212.5	7.2
80°-90°	57.6	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°	780.3	26.4
0°-40°	1284.0	43.5
0°-60°	2302.8	78.0
0°-90°	2952.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2952.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1003	1003	1003	1003	1003	
5°	998	997	997	1000	1002	95
15°	961	960	961	965	968	271
25°	893	893	895	900	907	412
35°	802	800	801	808	815	502
45°	686	685	684	692	700	529
55°	545	543	541	549	559	487
65°	383	380	376	387	400	380
75°	211	208	202	185	179	224
85°	47	47	48	48	49	60
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1002.8	1002.8	1002.8	1002.8	1002.8
2.5°	1002.8	1001.8	1000.8	1002.8	1004.7
5°	997.8	996.8	996.8	999.8	1001.8
7.5°	991.9	990.9	990.9	993.9	996.8
10°	983.0	983.0	983.0	986.0	988.9
12.5°	973.1	972.1	973.1	976.1	979.0
15°	961.3	960.3	961.3	965.2	968.2
17.5°	947.4	945.5	946.4	951.4	955.3
20°	931.6	930.6	931.6	936.6	941.5
22.5°	913.8	912.9	912.9	918.8	924.7
25°	893.1	893.1	895.1	900.0	906.9
27.5°	874.3	872.3	874.3	880.3	886.2
30°	852.6	850.6	850.6	858.5	864.4
32.5°	828.9	825.9	827.9	833.8	841.7
35°	802.2	800.2	801.2	808.1	815.0
37.5°	774.5	773.6	774.5	781.5	790.3
40°	746.9	744.9	745.9	753.8	761.7
42.5°	717.2	716.3	715.3	723.2	733.0
45°	685.6	684.6	683.7	691.6	699.5
47.5°	653.0	651.1	650.1	658.0	668.8
50°	617.5	617.5	616.5	622.4	632.3
52.5°	582.9	580.9	578.9	585.8	596.7
55°	545.3	543.4	541.4	549.3	559.2
57.5°	506.8	504.8	502.9	508.8	520.6
60°	467.3	465.3	460.4	470.3	484.1
62.5°	426.8	422.8	420.9	429.8	440.6
65°	383.3	380.4	376.4	387.3	400.1
67.5°	341.8	336.9	334.9	342.8	351.7
70°	299.3	295.4	292.4	293.4	295.4
72.5°	254.9	252.9	249.9	241.1	239.1
75°	211.4	208.5	201.5	184.7	178.8
77.5°	169.9	167.9	154.1	140.3	142.3
80°	127.4	125.5	110.6	113.6	118.6
82.5°	88.9	84.0	82.0	81.0	84.0
85°	47.4	47.4	48.4	48.4	49.4
87.5°	19.8	19.8	21.7	21.7	21.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)