

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: P184404

Luminaire Tested: **612EN-LD2-30-UNV-L850-CD1-U**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P184404  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34470)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: 612EN-LD2-30-UNV-L850-CD1-U  
Description: METALUX ENCOUNTER 600X1200 TROFFER  
  
Light Source: EATON LED 5000K  
Ballast/Driver: OSRAM ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3228.0 lumens  
Efficiency: N/A  
Efficacy: 131.2 lumens/watt  
Spacing Criteria (0/90/45): 1.29 / 1.27 / 1.4  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

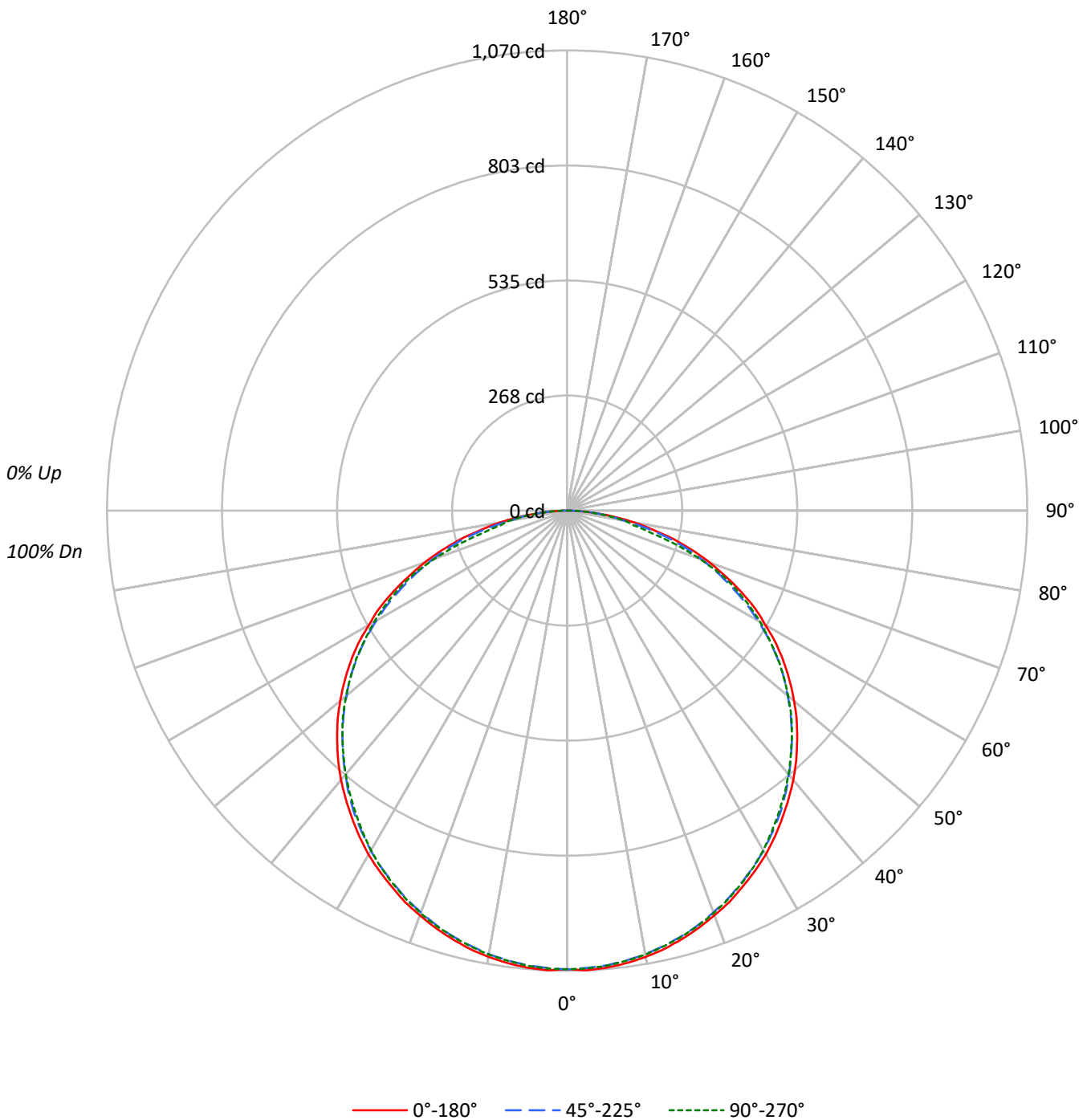
Input Watts (W): 24.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	108	103	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83
2	98	90	83	77	95	88	81	76	84	79	74	81	76	72	78	74	71	68
3	89	78	70	63	87	77	69	63	74	67	62	71	65	60	68	64	59	57
4	82	69	60	53	79	68	59	53	65	58	52	63	57	51	61	55	51	48
5	75	62	52	46	73	61	52	45	58	51	45	56	50	44	54	49	44	42
6	69	55	46	40	67	54	46	39	53	45	39	51	44	39	49	43	38	36
7	64	50	41	35	62	49	41	35	48	40	35	46	39	34	45	39	34	32
8	59	46	37	31	58	45	37	31	44	36	31	42	36	31	41	35	30	28
9	56	42	34	28	54	41	33	28	40	33	28	39	32	27	38	32	27	25
10	52	39	31	25	51	38	30	25	37	30	25	36	30	25	35	29	25	23

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

	0°	45°	90°
0°	1435	1435	1435
5°	1441	1433	1435
10°	1440	1431	1433
15°	1437	1428	1429
20°	1434	1423	1426
25°	1433	1420	1422
30°	1435	1418	1417
35°	1433	1416	1408
40°	1437	1409	1407
45°	1439	1406	1406
50°	1442	1402	1404
55°	1444	1399	1401
60°	1432	1378	1395
65°	1419	1348	1379
70°	1385	1313	1288
75°	1325	1253	1065
80°	1223	1025	1066
85°	1020	971	922



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	100.9	3.1
10°-20°	289.7	9.0
20°-30°	441.9	13.7
30°-40°	539.9	16.7
40°-50°	573.4	17.8
50°-60°	536.1	16.6
60°-70°	425.7	13.2
70°-80°	248.3	7.7
80°-90°	72.0	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°	832.5	25.8
0°-40°	1372.3	42.5
0°-60°	2481.9	76.9
0°-90°	3228.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3228.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1067	1067	1067	1067	1067	
5°	1067	1062	1061	1059	1062	101
15°	1031	1028	1025	1022	1026	291
25°	965	960	957	955	958	445
35°	872	867	862	855	858	547
45°	756	750	739	736	739	584
55°	615	609	596	593	597	549
65°	446	435	423	428	433	440
75°	255	245	241	214	205	268
85°	66	63	63	62	60	77
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1066.6	1066.6	1066.6	1066.6	1066.6
2.5°	1069.8	1065.5	1064.5	1062.3	1065.5
5°	1066.6	1062.3	1061.3	1059.1	1062.3
7.5°	1061.3	1057.0	1054.9	1052.7	1055.9
10°	1053.8	1049.5	1047.4	1045.3	1048.5
12.5°	1044.2	1038.9	1036.7	1034.6	1037.8
15°	1031.4	1028.2	1025.0	1021.8	1026.1
17.5°	1017.5	1013.3	1011.1	1009.0	1012.2
20°	1001.5	998.3	994.1	993.0	996.2
22.5°	985.5	979.1	977.0	973.8	978.1
25°	965.3	959.9	956.7	954.6	957.8
27.5°	945.0	939.7	935.4	933.3	936.5
30°	923.7	917.3	913.0	908.7	911.9
32.5°	899.1	892.7	887.4	883.1	885.3
35°	872.5	867.1	861.8	855.4	857.5
37.5°	845.8	840.5	833.0	827.7	829.8
40°	818.1	812.7	802.1	798.9	801.0
42.5°	788.2	781.8	771.1	767.9	770.1
45°	756.2	749.8	739.1	735.9	739.1
47.5°	724.2	716.7	705.0	702.9	707.1
50°	689.0	681.6	669.8	668.8	670.9
52.5°	652.8	644.2	634.6	631.4	634.6
55°	615.4	609.0	596.2	593.0	597.3
57.5°	576.0	566.4	555.7	552.5	556.8
60°	532.2	523.7	512.0	510.9	518.4
62.5°	492.8	481.0	469.3	468.2	476.8
65°	445.8	435.2	423.4	427.7	433.0
67.5°	397.8	389.3	378.6	381.8	387.2
70°	352.0	341.3	333.8	331.7	327.4
72.5°	304.0	295.4	291.2	274.1	268.8
75°	254.9	245.3	241.0	214.4	204.8
77.5°	203.7	199.5	188.8	162.1	158.9
80°	157.9	155.7	132.3	134.4	137.6
82.5°	109.9	108.8	101.3	99.2	98.1
85°	66.1	62.9	62.9	61.9	59.7
87.5°	26.7	28.8	27.7	26.7	27.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)