

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: P184401

Luminaire Tested: **612EN-LD2-30-UNV-L830-CD1-U**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P184401  
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-L830-CD1-U  
Description: METALUX ENCOUNTER 600X1200 TROFFER  
  
Light Source: EATON LED 3000K  
Ballast/Driver: OSRAM ELECTRONIC DRIVER

**Summary**

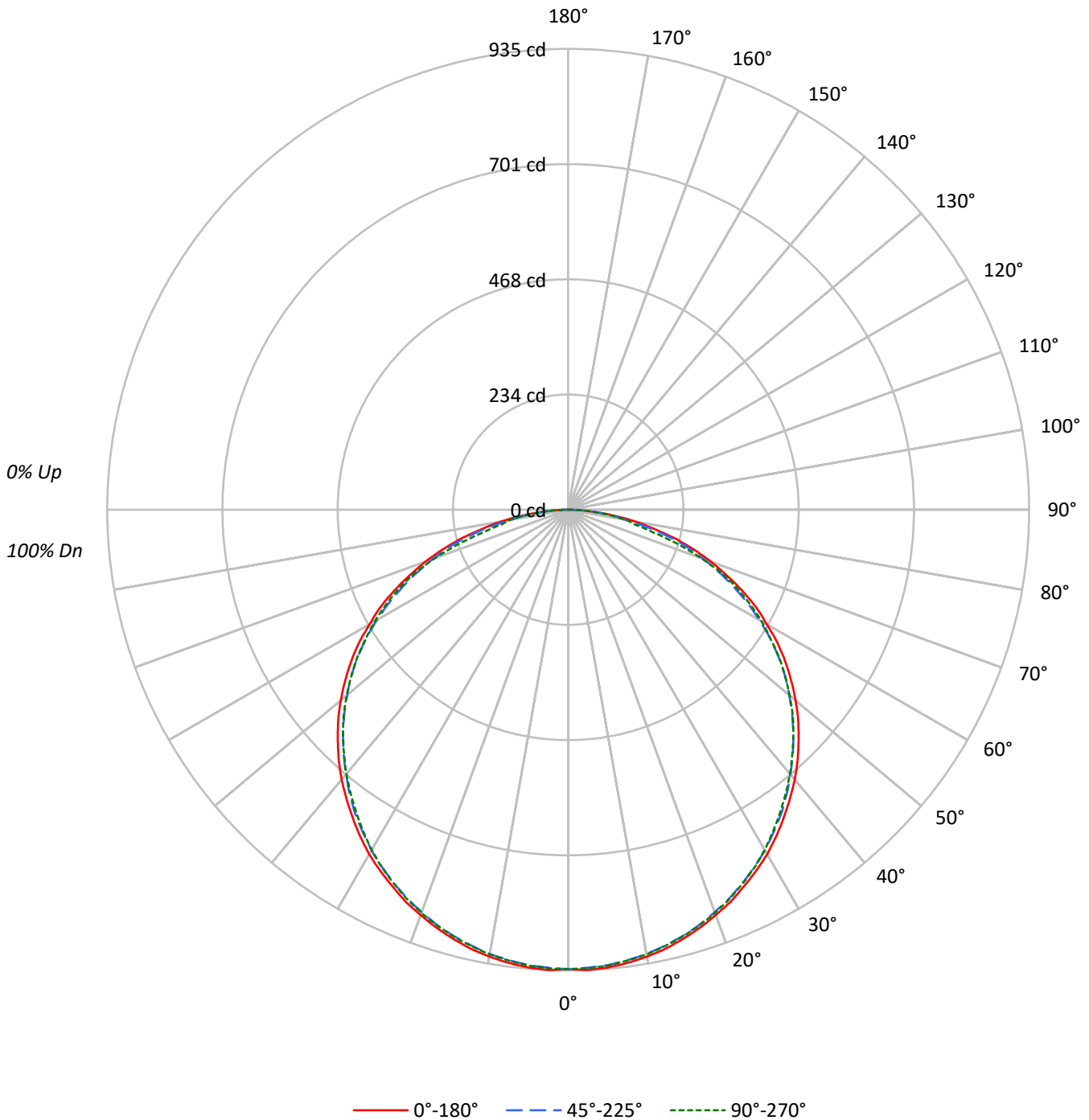
Lumens per Lamp: N/A  
Luminaire Lumens: 2820.9 lumens  
Efficiency: N/A  
Efficacy: 114.7 lumens/watt  
Spacing Criteria (0/90/45): 1.29 / 1.27 / 1.4  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

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°	1254	1254	1254
5°	1259	1253	1254
10°	1258	1251	1252
15°	1255	1248	1249
20°	1253	1244	1246
25°	1252	1241	1243
30°	1254	1239	1238
35°	1252	1237	1231
40°	1256	1231	1229
45°	1257	1229	1229
50°	1260	1225	1227
55°	1262	1222	1225
60°	1252	1204	1219
65°	1240	1178	1205
70°	1210	1148	1126
75°	1158	1095	931
80°	1068	896	931
85°	892	849	806



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	88.2	3.1
10°-20°	253.1	9.0
20°-30°	386.2	13.7
30°-40°	471.8	16.7
40°-50°	501.1	17.8
50°-60°	468.5	16.6
60°-70°	372.0	13.2
70°-80°	217.0	7.7
80°-90°	63.0	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°	727.5	25.8
0°-40°	1199.3	42.5
0°-60°	2168.8	76.9
0°-90°	2820.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2820.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	932	932	932	932	932	
5°	932	928	927	926	928	89
15°	901	898	896	893	897	255
25°	844	839	836	834	837	389
35°	762	758	753	748	749	478
45°	661	655	646	643	646	510
55°	538	532	521	518	522	480
65°	390	380	370	374	378	385
75°	223	214	211	187	179	234
85°	58	55	55	54	52	67
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	932.1	932.1	932.1	932.1	932.1
2.5°	934.9	931.1	930.2	928.3	931.1
5°	932.1	928.3	927.4	925.5	928.3
7.5°	927.4	923.7	921.8	919.9	922.7
10°	920.9	917.2	915.3	913.4	916.2
12.5°	912.5	907.8	906.0	904.1	906.9
15°	901.3	898.5	895.7	892.9	896.6
17.5°	889.2	885.5	883.6	881.7	884.5
20°	875.2	872.4	868.7	867.8	870.5
22.5°	861.2	855.6	853.8	851.0	854.7
25°	843.5	838.9	836.1	834.2	837.0
27.5°	825.8	821.1	817.4	815.6	818.4
30°	807.2	801.6	797.8	794.1	796.9
32.5°	785.7	780.1	775.5	771.8	773.6
35°	762.4	757.8	753.1	747.5	749.4
37.5°	739.1	734.5	727.9	723.3	725.1
40°	714.9	710.2	700.9	698.1	700.0
42.5°	688.8	683.2	673.9	671.1	673.0
45°	660.8	655.2	645.9	643.1	645.9
47.5°	632.9	626.3	616.1	614.2	618.0
50°	602.1	595.6	585.3	584.4	586.3
52.5°	570.4	563.0	554.6	551.8	554.6
55°	537.8	532.2	521.0	518.2	522.0
57.5°	503.3	494.9	485.6	482.8	486.5
60°	465.1	457.6	447.4	446.5	453.0
62.5°	430.6	420.4	410.1	409.2	416.6
65°	389.6	380.3	370.0	373.8	378.4
67.5°	347.7	340.2	330.9	333.7	338.3
70°	307.6	298.3	291.7	289.9	286.1
72.5°	265.6	258.2	254.5	239.5	234.9
75°	222.8	214.4	210.6	187.3	179.0
77.5°	178.0	174.3	165.0	141.7	138.9
80°	137.9	136.1	115.6	117.4	120.2
82.5°	96.0	95.1	88.5	86.7	85.8
85°	57.8	55.0	55.0	54.1	52.2
87.5°	23.3	25.2	24.2	23.3	24.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)