

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: P184403

Luminaire Tested: **612EN-LD2-30-UNV-L840-CD1-U**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P184403  
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-L840-CD1-U  
Description: METALUX ENCOUNTER 600X1200 TROFFER  
  
Light Source: EATON LED 4000K  
Ballast/Driver: OSRAM ELECTRONIC DRIVER

**Summary**

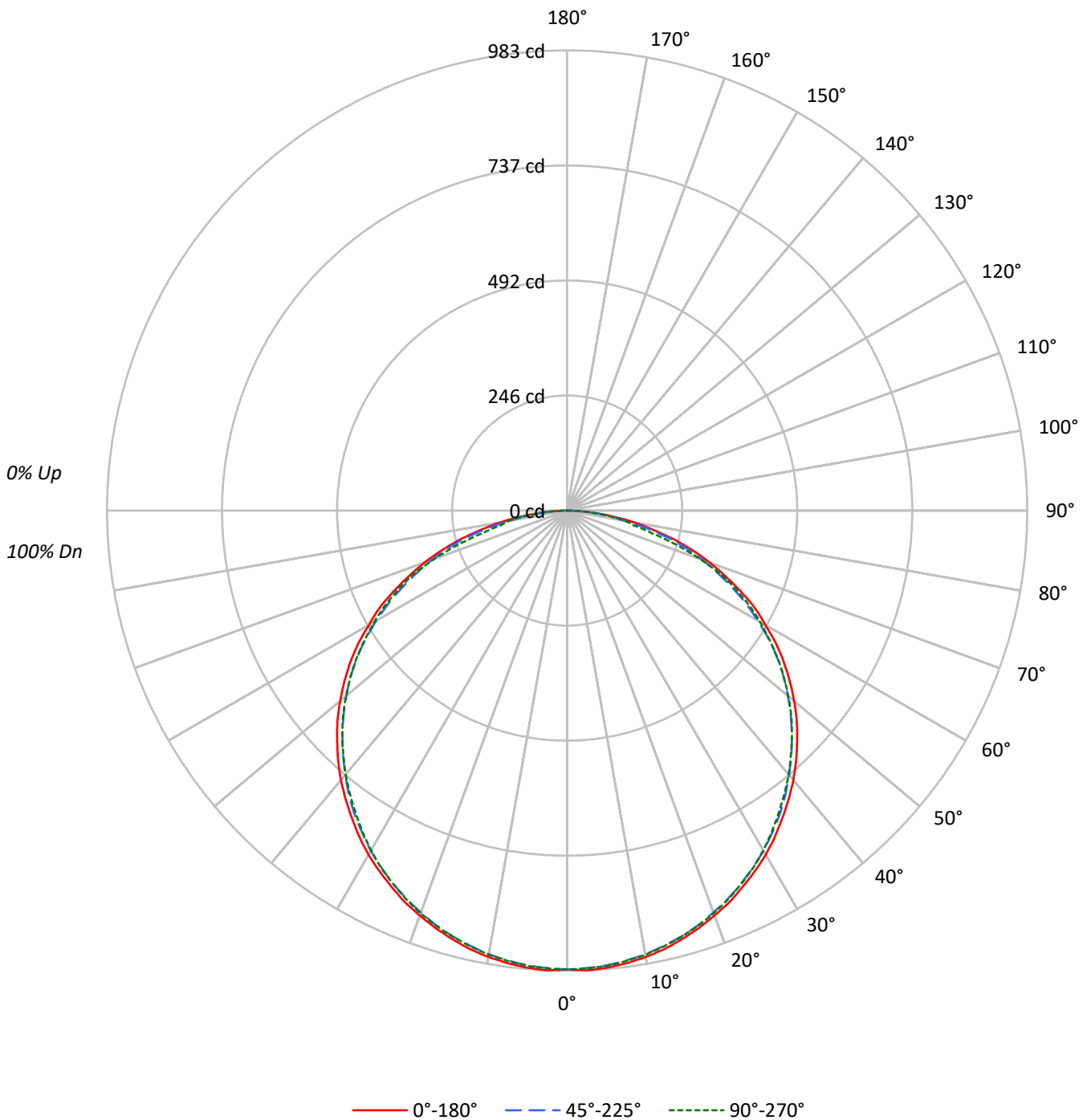
Lumens per Lamp: N/A  
Luminaire Lumens: 2966.2 lumens  
Efficiency: N/A  
Efficacy: 120.6 lumens/watt  
Spacing Criteria (0/90/45): 1.29 / 1.27 / 1.4  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

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°	1319	1319	1319
5°	1324	1317	1318
10°	1323	1315	1316
15°	1320	1312	1313
20°	1318	1308	1311
25°	1317	1305	1307
30°	1319	1304	1302
35°	1317	1301	1294
40°	1320	1294	1293
45°	1322	1292	1292
50°	1325	1288	1290
55°	1327	1285	1288
60°	1316	1266	1282
65°	1304	1239	1267
70°	1272	1207	1184
75°	1218	1151	978
80°	1124	941	979
85°	939	892	848



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	92.7	3.1
10°-20°	266.2	9.0
20°-30°	406.1	13.7
30°-40°	496.1	16.7
40°-50°	526.9	17.8
50°-60°	492.7	16.6
60°-70°	391.2	13.2
70°-80°	228.2	7.7
80°-90°	66.2	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°	765.0	25.8
0°-40°	1261.1	42.5
0°-60°	2280.6	76.9
0°-90°	2966.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2966.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	980	980	980	980	980	
5°	980	976	975	973	976	93
15°	948	945	942	939	943	268
25°	887	882	879	877	880	409
35°	802	797	792	786	788	502
45°	695	689	679	676	679	536
55°	566	560	548	545	549	505
65°	410	400	389	393	398	405
75°	234	225	222	197	188	247
85°	61	58	58	57	55	70
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	980.1	980.1	980.1	980.1	980.1
2.5°	983.1	979.1	978.1	976.2	979.1
5°	980.1	976.2	975.2	973.2	976.2
7.5°	975.2	971.3	969.3	967.4	970.3
10°	968.3	964.4	962.5	960.5	963.4
12.5°	959.5	954.6	952.7	950.7	953.6
15°	947.8	944.8	941.9	938.9	942.9
17.5°	935.0	931.1	929.1	927.2	930.1
20°	920.3	917.4	913.5	912.5	915.4
22.5°	905.6	899.7	897.8	894.8	898.8
25°	887.0	882.1	879.2	877.2	880.1
27.5°	868.4	863.5	859.6	857.6	860.5
30°	848.8	842.9	839.0	835.1	838.0
32.5°	826.2	820.4	815.5	811.5	813.5
35°	801.7	796.8	791.9	786.0	788.0
37.5°	777.2	772.3	765.5	760.6	762.5
40°	751.7	746.8	737.0	734.1	736.1
42.5°	724.3	718.4	708.6	705.7	707.6
45°	694.9	689.0	679.2	676.3	679.2
47.5°	665.5	658.6	647.9	645.9	649.8
50°	633.2	626.3	615.5	614.5	616.5
52.5°	599.8	592.0	583.2	580.2	583.2
55°	565.5	559.6	547.9	544.9	548.9
57.5°	529.3	520.4	510.6	507.7	511.6
60°	489.1	481.2	470.5	469.5	476.3
62.5°	452.8	442.0	431.2	430.3	438.1
65°	409.7	399.9	389.1	393.0	397.9
67.5°	365.6	357.7	347.9	350.9	355.8
70°	323.4	313.6	306.8	304.8	300.9
72.5°	279.3	271.5	267.6	251.9	247.0
75°	234.2	225.4	221.5	197.0	188.2
77.5°	187.2	183.3	173.5	149.0	146.0
80°	145.1	143.1	121.5	123.5	126.4
82.5°	101.0	100.0	93.1	91.2	90.2
85°	60.8	57.8	57.8	56.8	54.9
87.5°	24.5	26.5	25.5	24.5	25.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)