

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: P184402

Luminaire Tested: **612EN-LD2-30-UNV-L835-CD1-U**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P184402
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-L835-CD1-U
Description: METALUX ENCOUNTER 600X1200 TROFFER

Light Source: EATON LED 3500K
Ballast/Driver: OSRAM ELECTRONIC DRIVER

Summary

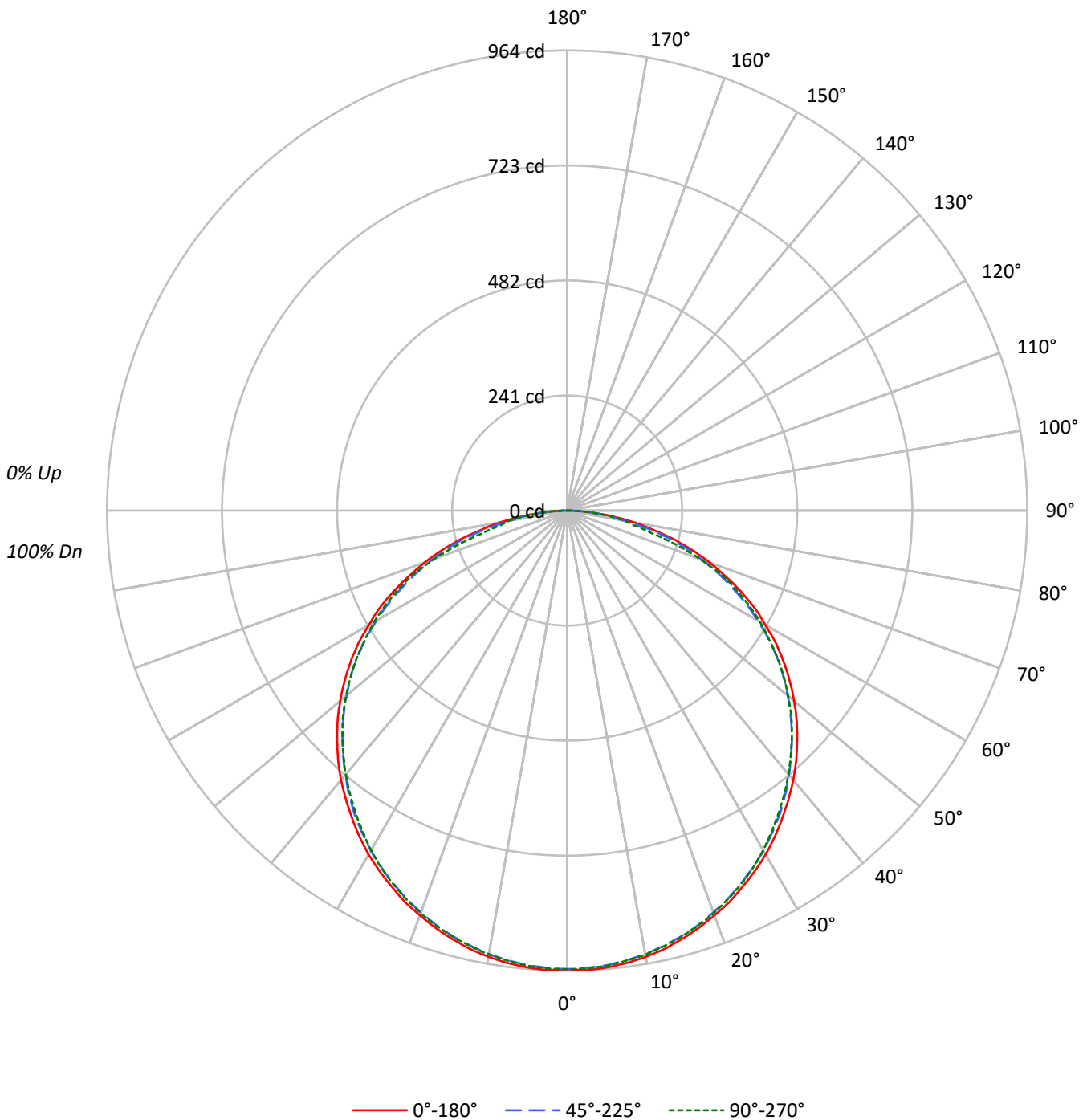
Lumens per Lamp: N/A
Luminaire Lumens: 2908.1 lumens
Efficiency: N/A
Efficacy: 118.2 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.27 / 1.4
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	1293	1293	1293
5°	1298	1291	1293
10°	1297	1289	1291
15°	1294	1286	1288
20°	1292	1282	1285
25°	1291	1280	1281
30°	1293	1278	1276
35°	1291	1275	1269
40°	1294	1269	1267
45°	1296	1267	1267
50°	1299	1263	1265
55°	1301	1260	1262
60°	1290	1241	1257
65°	1279	1215	1242
70°	1247	1183	1161
75°	1194	1129	959
80°	1102	924	961
85°	920	875	831



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.9	3.1
10°-20°	261.0	9.0
20°-30°	398.1	13.7
30°-40°	486.4	16.7
40°-50°	516.6	17.8
50°-60°	483.0	16.6
60°-70°	383.5	13.2
70°-80°	223.7	7.7
80°-90°	64.9	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°	750.0	25.8
0°-40°	1236.4	42.5
0°-60°	2235.9	76.9
0°-90°	2908.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2908.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	961	961	961	961	961	
5°	961	957	956	954	957	91
15°	929	926	923	920	924	262
25°	870	865	862	860	863	401
35°	786	781	776	771	773	492
45°	681	676	666	663	666	526
55°	554	549	537	534	538	495
65°	402	392	382	385	390	397
75°	230	221	217	193	184	242
85°	60	57	57	56	54	69
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	960.9	960.9	960.9	960.9	960.9
2.5°	963.8	959.9	959.0	957.0	959.9
5°	960.9	957.0	956.1	954.2	957.0
7.5°	956.1	952.2	950.3	948.4	951.3
10°	949.4	945.5	943.6	941.7	944.6
12.5°	940.7	935.9	934.0	932.1	934.9
15°	929.2	926.3	923.4	920.5	924.4
17.5°	916.7	912.8	910.9	909.0	911.9
20°	902.3	899.4	895.6	894.6	897.5
22.5°	887.9	882.1	880.2	877.3	881.1
25°	869.6	864.8	861.9	860.0	862.9
27.5°	851.4	846.5	842.7	840.8	843.7
30°	832.1	826.4	822.5	818.7	821.6
32.5°	810.0	804.3	799.5	795.6	797.5
35°	786.0	781.2	776.4	770.6	772.6
37.5°	762.0	757.2	750.5	745.7	747.6
40°	737.0	732.2	722.6	719.7	721.6
42.5°	710.1	704.3	694.7	691.8	693.8
45°	681.3	675.5	665.9	663.0	665.9
47.5°	652.4	645.7	635.1	633.2	637.1
50°	620.7	614.0	603.4	602.5	604.4
52.5°	588.1	580.4	571.7	568.8	571.7
55°	554.4	548.7	537.1	534.3	538.1
57.5°	518.9	510.2	500.6	497.7	501.6
60°	479.5	471.8	461.2	460.3	467.0
62.5°	443.9	433.4	422.8	421.8	429.5
65°	401.7	392.0	381.5	385.3	390.1
67.5°	358.4	350.7	341.1	344.0	348.8
70°	317.1	307.5	300.8	298.8	295.0
72.5°	273.9	266.2	262.3	246.9	242.1
75°	229.7	221.0	217.2	193.1	184.5
77.5°	183.5	179.7	170.1	146.1	143.2
80°	142.2	140.3	119.2	121.1	124.0
82.5°	99.0	98.0	91.3	89.4	88.4
85°	59.6	56.7	56.7	55.7	53.8
87.5°	24.0	25.9	25.0	24.0	25.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)