

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: P184408

Luminaire Tested: **612EN-LD2-34-UNV-L840-CD1-U**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P184408
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-LD2-34-UNV-L840-CD1-U
Description: METALUX ENCOUNTER 600X1200 TROFFER

Light Source: EATON LED 4000K
Ballast/Driver: OSRAM ELECTRONIC DRIVER

Summary

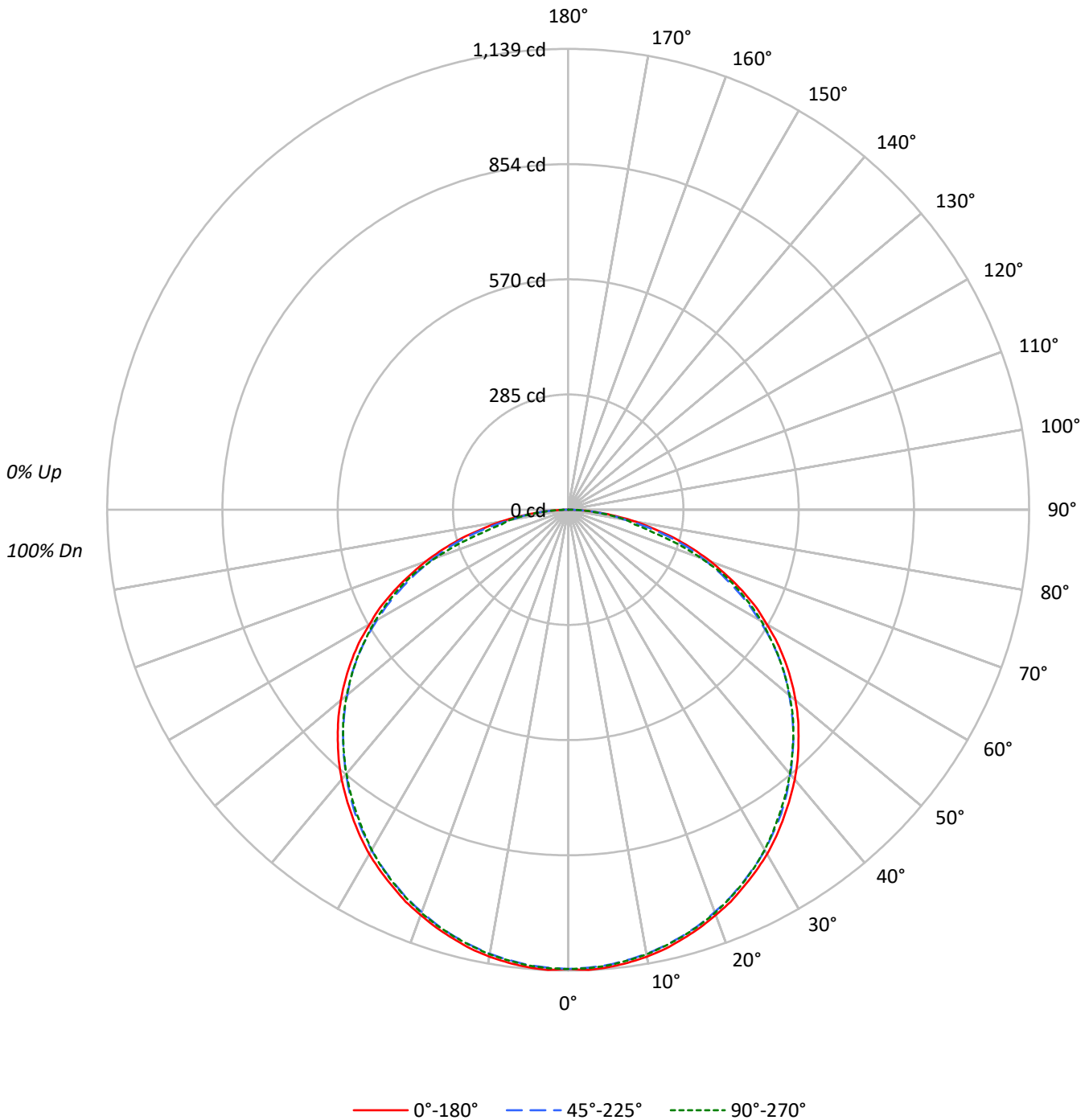
Lumens per Lamp: N/A
Luminaire Lumens: 3435.8 lumens
Efficiency: N/A
Efficacy: 119.7 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.27 / 1.4
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 28.7
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°	1528	1528	1528
5°	1533	1526	1527
10°	1532	1523	1525
15°	1529	1520	1521
20°	1526	1515	1518
25°	1525	1512	1514
30°	1527	1510	1508
35°	1525	1507	1499
40°	1529	1499	1498
45°	1532	1497	1497
50°	1535	1492	1495
55°	1536	1489	1491
60°	1524	1466	1485
65°	1511	1435	1467
70°	1474	1398	1371
75°	1410	1334	1133
80°	1302	1091	1134
85°	1087	1034	982



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.4	3.1
10°-20°	308.3	9.0
20°-30°	470.4	13.7
30°-40°	574.6	16.7
40°-50°	610.3	17.8
50°-60°	570.7	16.6
60°-70°	453.1	13.2
70°-80°	264.3	7.7
80°-90°	76.7	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°	886.1	25.8
0°-40°	1460.7	42.5
0°-60°	2641.7	76.9
0°-90°	3435.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3435.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1135	1135	1135	1135	1135	
5°	1135	1131	1130	1127	1131	108
15°	1098	1094	1091	1088	1092	310
25°	1027	1022	1018	1016	1020	474
35°	929	923	917	910	913	582
45°	805	798	787	783	787	621
55°	655	648	635	631	636	585
65°	474	463	451	455	461	469
75°	271	261	257	228	218	286
85°	70	67	67	66	64	82
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1135.3	1135.3	1135.3	1135.3	1135.3
2.5°	1138.7	1134.1	1133.0	1130.7	1134.1
5°	1135.3	1130.7	1129.6	1127.3	1130.7
7.5°	1129.6	1125.0	1122.8	1120.5	1123.9
10°	1121.6	1117.1	1114.8	1112.6	1116.0
12.5°	1111.4	1105.7	1103.5	1101.2	1104.6
15°	1097.8	1094.4	1091.0	1087.6	1092.1
17.5°	1083.0	1078.5	1076.2	1074.0	1077.4
20°	1066.0	1062.6	1058.1	1056.9	1060.3
22.5°	1049.0	1042.2	1039.9	1036.5	1041.0
25°	1027.4	1021.7	1018.3	1016.1	1019.5
27.5°	1005.8	1000.2	995.6	993.3	996.8
30°	983.1	976.3	971.8	967.2	970.6
32.5°	957.0	950.2	944.5	940.0	942.3
35°	928.6	923.0	917.3	910.5	912.7
37.5°	900.3	894.6	886.6	881.0	883.2
40°	870.7	865.1	853.7	850.3	852.6
42.5°	839.0	832.1	820.8	817.4	819.7
45°	804.9	798.1	786.7	783.3	786.7
47.5°	770.8	762.9	750.4	748.1	752.7
50°	733.4	725.4	712.9	711.8	714.1
52.5°	694.8	685.7	675.5	672.1	675.5
55°	655.0	648.2	634.6	631.2	635.7
57.5°	613.0	602.8	591.5	588.1	592.6
60°	566.5	557.4	544.9	543.8	551.7
62.5°	524.5	512.0	499.5	498.4	507.5
65°	474.5	463.2	450.7	455.2	460.9
67.5°	423.5	414.4	403.0	406.4	412.1
70°	374.6	363.3	355.3	353.1	348.5
72.5°	323.5	314.5	309.9	291.8	286.1
75°	271.3	261.1	256.6	228.2	218.0
77.5°	216.8	212.3	200.9	172.6	169.2
80°	168.0	165.7	140.8	143.0	146.4
82.5°	116.9	115.8	107.8	105.6	104.4
85°	70.4	67.0	67.0	65.8	63.6
87.5°	28.4	30.7	29.5	28.4	29.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)