

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: P184406

Luminaire Tested: **612EN-LD2-34-UNV-L830-CD1-U**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P184406
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-L830-CD1-U
Description: METALUX ENCOUNTER 600X1200 TROFFER

Light Source: EATON LED 3000K
Ballast/Driver: OSRAM ELECTRONIC DRIVER

Summary

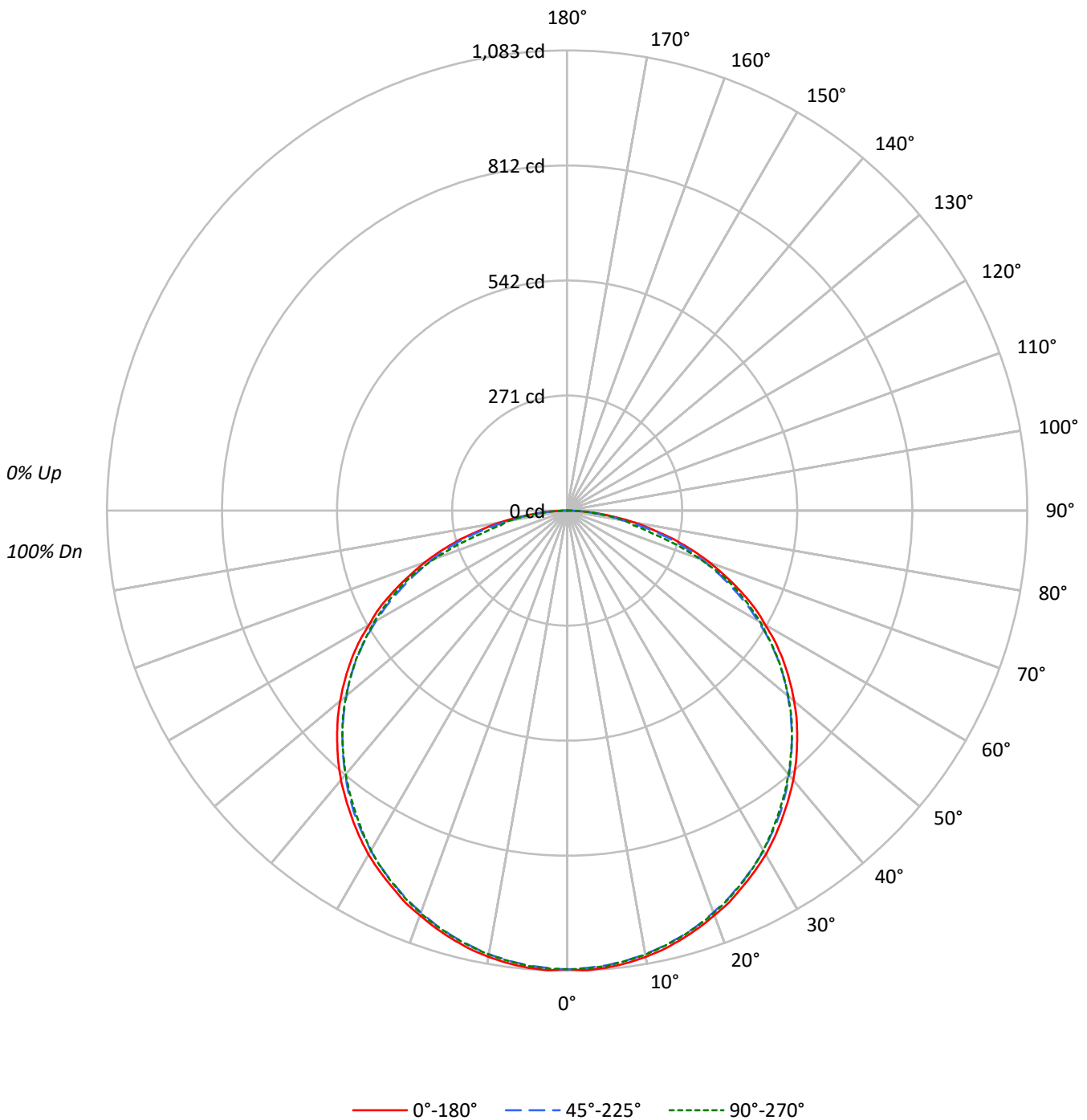
Lumens per Lamp: N/A
Luminaire Lumens: 3267.4 lumens
Efficiency: N/A
Efficacy: 113.8 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.27 / 1.4
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 28.7
Input Voltage (V): NR
Input Current (A_{in}): 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°	1453	1453	1453
5°	1458	1451	1452
10°	1457	1448	1450
15°	1454	1445	1447
20°	1452	1441	1444
25°	1450	1438	1439
30°	1452	1436	1434
35°	1451	1433	1426
40°	1454	1426	1424
45°	1456	1424	1424
50°	1460	1419	1421
55°	1461	1416	1418
60°	1450	1394	1412
65°	1437	1365	1395
70°	1402	1329	1304
75°	1341	1268	1078
80°	1238	1038	1079
85°	1033	983	934



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.1	3.1
10°-20°	293.2	9.0
20°-30°	447.3	13.7
30°-40°	546.4	16.7
40°-50°	580.4	17.8
50°-60°	542.7	16.6
60°-70°	430.9	13.2
70°-80°	251.4	7.7
80°-90°	72.9	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°	842.6	25.8
0°-40°	1389.1	42.5
0°-60°	2512.2	76.9
0°-90°	3267.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3267.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1080	1080	1080	1080	1080	
5°	1080	1075	1074	1072	1075	103
15°	1044	1041	1038	1034	1039	295
25°	977	972	968	966	970	451
35°	883	878	872	866	868	553
45°	765	759	748	745	748	591
55°	623	616	604	600	605	556
65°	451	440	429	433	438	446
75°	258	248	244	217	207	272
85°	67	64	64	63	60	78
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1079.6	1079.6	1079.6	1079.6	1079.6
2.5°	1082.8	1078.5	1077.4	1075.3	1078.5
5°	1079.6	1075.3	1074.2	1072.0	1075.3
7.5°	1074.2	1069.9	1067.7	1065.6	1068.8
10°	1066.7	1062.3	1060.2	1058.0	1061.3
12.5°	1056.9	1051.5	1049.4	1047.2	1050.5
15°	1044.0	1040.7	1037.5	1034.3	1038.6
17.5°	1029.9	1025.6	1023.5	1021.3	1024.5
20°	1013.8	1010.5	1006.2	1005.1	1008.4
22.5°	997.6	991.1	988.9	985.7	990.0
25°	977.0	971.6	968.4	966.2	969.5
27.5°	956.5	951.1	946.8	944.7	947.9
30°	934.9	928.5	924.1	919.8	923.1
32.5°	910.1	903.6	898.2	893.9	896.1
35°	883.1	877.7	872.3	865.8	868.0
37.5°	856.1	850.7	843.2	837.8	839.9
40°	828.1	822.7	811.9	808.6	810.8
42.5°	797.8	791.4	780.6	777.3	779.5
45°	765.4	759.0	748.2	744.9	748.2
47.5°	733.1	725.5	713.6	711.5	715.8
50°	697.4	689.9	678.0	676.9	679.1
52.5°	660.7	652.1	642.4	639.1	642.4
55°	622.9	616.5	603.5	600.3	604.6
57.5°	583.0	573.3	562.5	559.2	563.6
60°	538.7	530.1	518.2	517.1	524.7
62.5°	498.8	486.9	475.0	473.9	482.6
65°	451.3	440.5	428.6	432.9	438.3
67.5°	402.7	394.1	383.3	386.5	391.9
70°	356.3	345.5	337.9	335.8	331.4
72.5°	307.7	299.1	294.7	277.5	272.1
75°	258.0	248.3	244.0	217.0	207.3
77.5°	206.2	201.9	191.1	164.1	160.9
80°	159.8	157.6	133.9	136.0	139.3
82.5°	111.2	110.1	102.6	100.4	99.3
85°	66.9	63.7	63.7	62.6	60.5
87.5°	27.0	29.1	28.1	27.0	28.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)