

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: P184507

Luminaire Tested: **312EN-LD2-43-UNV-L835-CD1-U**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P184507
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34485)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: 312EN-LD2-43-UNV-L835-CD1-U
Description: METALUX ENCOUNTER 300X1200 TROFFER

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

Summary

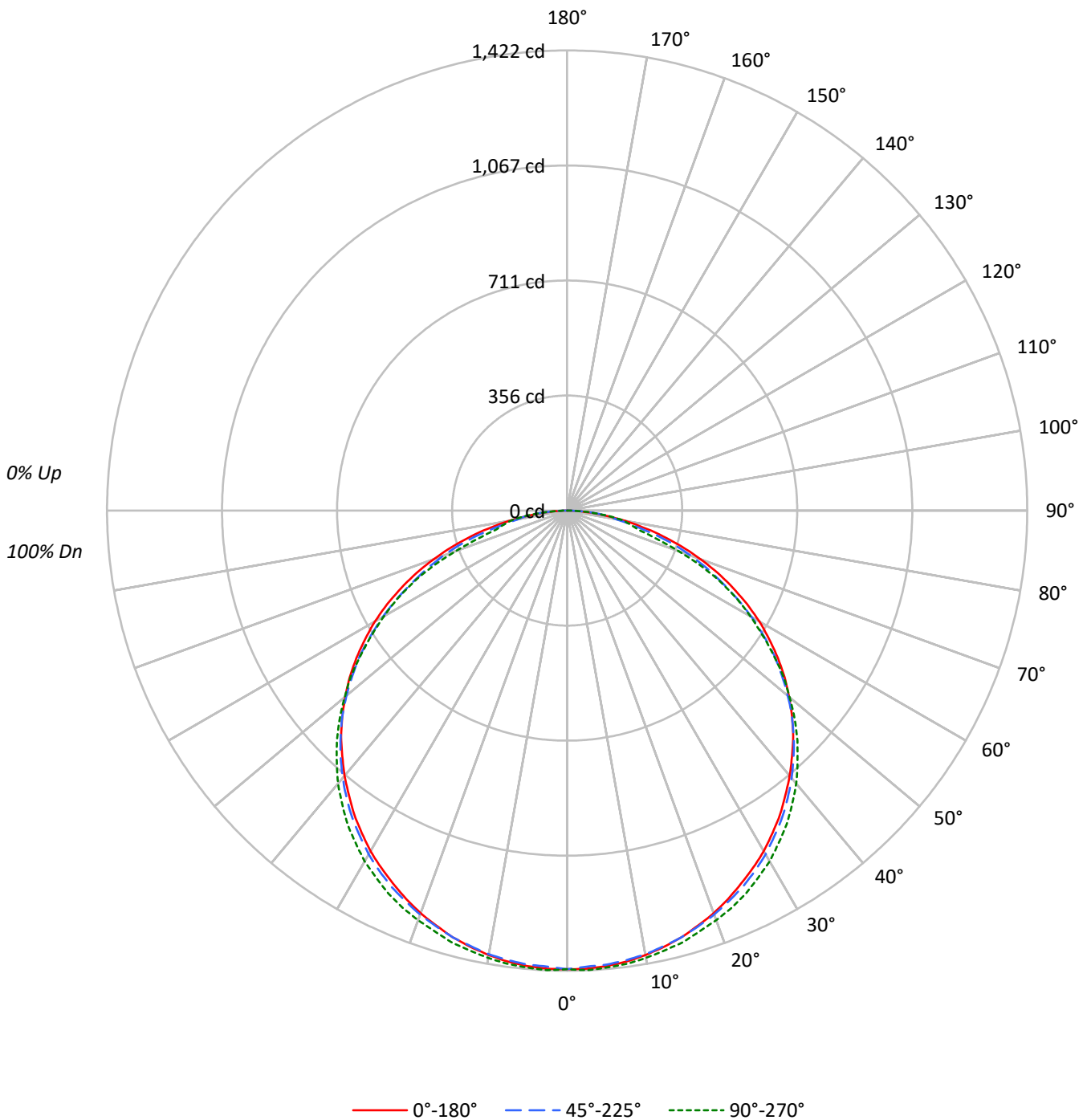
Lumens per Lamp: N/A
Luminaire Lumens: 4214.3 lumens
Efficiency: N/A
Efficacy: 112.1 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.31 / 1.41
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 37.6
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	109	104	99	95	106	101	97	94	97	94	91	93	91	88	90	87	85	83
2	99	90	83	77	96	88	82	77	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	77	70	64	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53	64	57	52	61	56	52	49
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	43
6	70	56	47	40	68	55	47	40	53	46	40	52	45	40	50	44	39	37
7	64	51	42	36	63	50	41	36	48	41	35	47	40	35	46	39	35	33
8	60	46	38	32	58	46	37	32	44	37	31	43	36	31	42	36	31	29
9	56	42	34	28	55	42	34	28	41	33	28	40	33	28	39	32	28	26
10	52	39	31	26	51	39	31	26	38	30	26	37	30	25	36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3814	3814	3814
5°	3816	3804	3828
10°	3810	3804	3835
15°	3803	3803	3847
20°	3792	3805	3857
25°	3776	3810	3877
30°	3776	3811	3888
35°	3768	3805	3887
40°	3758	3790	3869
45°	3760	3768	3829
50°	3746	3727	3756
55°	3729	3666	3655
60°	3691	3545	3520
65°	3601	3370	3340
70°	3448	3198	2877
75°	3188	2833	2361
80°	2780	2393	2710
85°	2103	2526	2455



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.3	3.2
10°-20°	386.7	9.2
20°-30°	593.0	14.1
30°-40°	726.3	17.2
40°-50°	765.7	18.2
50°-60°	699.4	16.6
60°-70°	531.4	12.6
70°-80°	290.2	6.9
80°-90°	87.1	2.1
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°	1114.0	26.4
0°-40°	1840.4	43.7
0°-60°	3305.5	78.4
0°-90°	4214.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4214.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1417	1417	1417	1417	1417	
5°	1413	1413	1408	1415	1417	134
15°	1365	1365	1365	1376	1381	385
25°	1272	1274	1283	1299	1306	587
35°	1147	1147	1158	1174	1183	717
45°	988	988	990	999	1006	761
55°	795	793	781	774	779	710
65°	566	554	529	525	525	559
75°	307	295	272	234	227	324
85°	68	73	82	80	80	84
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1417.2	1417.2	1417.2	1417.2	1417.2
2.5°	1417.2	1417.2	1410.4	1417.2	1421.7
5°	1412.7	1412.7	1408.1	1414.9	1417.2
7.5°	1405.8	1405.8	1401.3	1408.1	1412.7
10°	1394.5	1394.5	1392.2	1399.0	1403.6
12.5°	1380.9	1380.9	1378.6	1387.7	1392.2
15°	1365.0	1365.0	1365.0	1376.3	1380.9
17.5°	1344.5	1346.8	1346.8	1358.1	1362.7
20°	1324.1	1326.3	1328.6	1342.2	1346.8
22.5°	1299.1	1299.1	1305.9	1321.8	1328.6
25°	1271.8	1274.1	1283.2	1299.1	1305.9
27.5°	1244.6	1246.9	1255.9	1271.8	1278.7
30°	1215.1	1217.3	1226.4	1242.3	1251.4
32.5°	1181.0	1183.3	1192.3	1210.5	1217.3
35°	1146.9	1146.9	1158.3	1174.2	1183.3
37.5°	1108.3	1110.6	1119.7	1135.6	1142.4
40°	1069.7	1072.0	1078.8	1092.4	1101.5
42.5°	1028.8	1031.1	1035.6	1047.0	1053.8
45°	987.9	987.9	990.2	999.3	1006.1
47.5°	942.5	942.5	942.5	947.1	953.9
50°	894.8	894.8	890.3	892.6	897.1
52.5°	847.1	844.9	835.8	835.8	842.6
55°	794.9	792.6	781.3	774.5	779.0
57.5°	740.4	735.9	720.0	713.1	715.4
60°	685.9	679.1	658.6	649.5	654.1
62.5°	626.8	620.0	595.0	588.2	592.8
65°	565.5	554.2	529.2	524.6	524.6
67.5°	504.2	490.6	467.9	456.5	449.7
70°	438.3	424.7	406.5	379.3	365.7
72.5°	372.5	361.1	342.9	302.1	288.4
75°	306.6	295.2	272.5	233.9	227.1
77.5°	240.7	233.9	204.4	193.0	199.9
80°	179.4	179.4	154.4	168.1	174.9
82.5°	120.4	115.8	127.2	129.5	129.5
85°	68.1	72.7	81.8	79.5	79.5
87.5°	29.5	34.1	36.3	34.1	34.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)