

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: P184477

Luminaire Tested: **66EN-LD2-43-UNV-L835-CD1-U**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P184477
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34466)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: 66EN-LD2-43-UNV-L835-CD1-U
Description: METALUX ENCOUNTER 600X600 TROFFER

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

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4211.4 lumens
Efficiency: N/A
Efficacy: 110.0 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.28 / 1.39
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

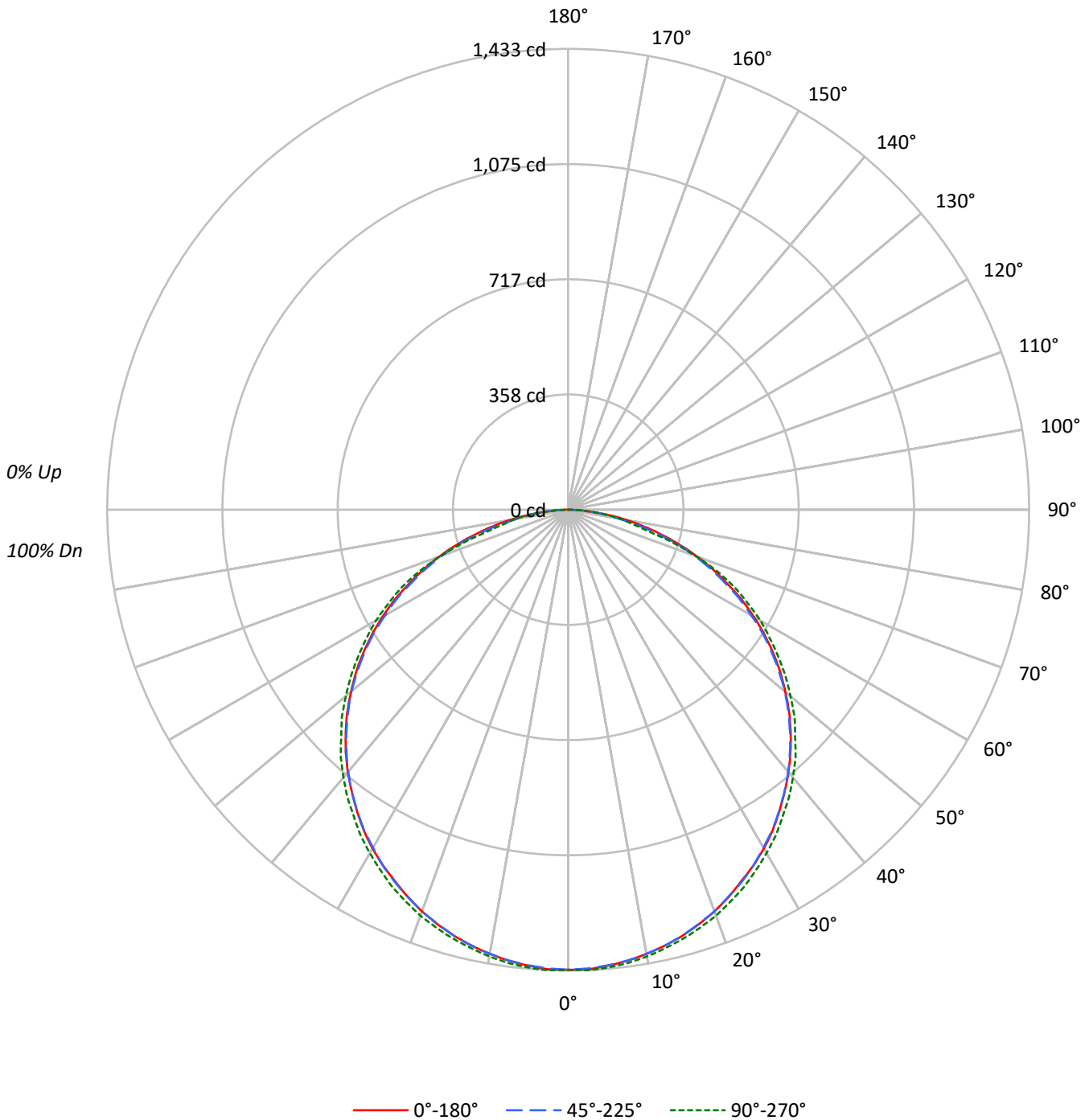
Input Watts (W): 38.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	76	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	77	70	63	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	46	57	50	45	55	49	45	42
6	69	56	47	40	68	55	46	40	53	45	40	51	45	39	50	44	39	37
7	64	51	42	36	63	50	41	35	48	41	35	47	40	35	45	39	35	33
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	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°	3850	3850	3850
5°	3845	3841	3860
10°	3832	3832	3855
15°	3821	3821	3848
20°	3806	3806	3846
25°	3783	3791	3842
30°	3779	3771	3832
35°	3759	3755	3820
40°	3743	3738	3817
45°	3722	3712	3798
50°	3688	3682	3776
55°	3650	3624	3742
60°	3588	3535	3717
65°	3482	3419	3635
70°	3360	3282	3316
75°	3136	2989	2652
80°	2817	2447	2620
85°	2090	2133	2177



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.3	3.2
10°-20°	387.7	9.2
20°-30°	590.1	14.0
30°-40°	718.6	17.1
40°-50°	757.1	18.0
50°-60°	696.4	16.5
60°-70°	540.9	12.8
70°-80°	303.2	7.2
80°-90°	82.1	2.0
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°	1113.1	26.4
0°-40°	1831.7	43.5
0°-60°	3285.2	78.0
0°-90°	4211.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4211.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1431	1431	1431	1431	1431	
5°	1424	1422	1422	1426	1429	135
15°	1371	1370	1371	1377	1381	387
25°	1274	1274	1277	1284	1294	588
35°	1144	1142	1143	1153	1163	716
45°	978	977	975	987	998	754
55°	778	775	772	784	798	695
65°	547	543	537	552	571	542
75°	302	297	288	264	255	320
85°	68	68	69	69	70	85
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1430.6	1430.6	1430.6	1430.6	1430.6
2.5°	1430.6	1429.1	1427.7	1430.6	1433.4
5°	1423.5	1422.1	1422.1	1426.3	1429.1
7.5°	1415.0	1413.6	1413.6	1417.9	1422.1
10°	1402.4	1402.4	1402.4	1406.6	1410.8
12.5°	1388.3	1386.9	1388.3	1392.5	1396.7
15°	1371.4	1369.9	1371.4	1377.0	1381.2
17.5°	1351.6	1348.8	1350.2	1357.3	1362.9
20°	1329.1	1327.7	1329.1	1336.1	1343.2
22.5°	1303.7	1302.3	1302.3	1310.8	1319.2
25°	1274.1	1274.1	1276.9	1284.0	1293.8
27.5°	1247.3	1244.5	1247.3	1255.8	1264.2
30°	1216.3	1213.5	1213.5	1224.8	1233.2
32.5°	1182.5	1178.3	1181.1	1189.5	1200.8
35°	1144.4	1141.6	1143.0	1152.9	1162.8
37.5°	1105.0	1103.6	1105.0	1114.8	1127.5
40°	1065.5	1062.7	1064.1	1075.4	1086.7
42.5°	1023.2	1021.8	1020.4	1031.7	1045.8
45°	978.1	976.7	975.3	986.6	997.9
47.5°	931.6	928.8	927.4	938.7	954.2
50°	880.9	880.9	879.5	887.9	902.0
52.5°	831.6	828.7	825.9	835.8	851.3
55°	778.0	775.2	772.4	783.6	797.7
57.5°	723.0	720.2	717.4	725.8	742.8
60°	666.7	663.8	656.8	670.9	690.6
62.5°	608.9	603.2	600.4	613.1	628.6
65°	546.9	542.6	537.0	552.5	570.8
67.5°	487.7	480.6	477.8	489.1	501.8
70°	427.1	421.4	417.2	418.6	421.4
72.5°	363.6	360.8	356.6	343.9	341.1
75°	301.6	297.4	287.5	263.6	255.1
77.5°	242.4	239.6	219.9	200.1	203.0
80°	181.8	179.0	157.9	162.1	169.1
82.5°	126.8	119.8	117.0	115.6	119.8
85°	67.7	67.7	69.1	69.1	70.5
87.5°	28.2	28.2	31.0	31.0	31.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)