

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: P184478

Luminaire Tested: **66EN-LD2-43-UNV-L840-CD1-U**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P184478
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-L840-CD1-U
Description: METALUX ENCOUNTER 600X600 TROFFER

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

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4295.6 lumens
Efficiency: N/A
Efficacy: 112.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.39
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

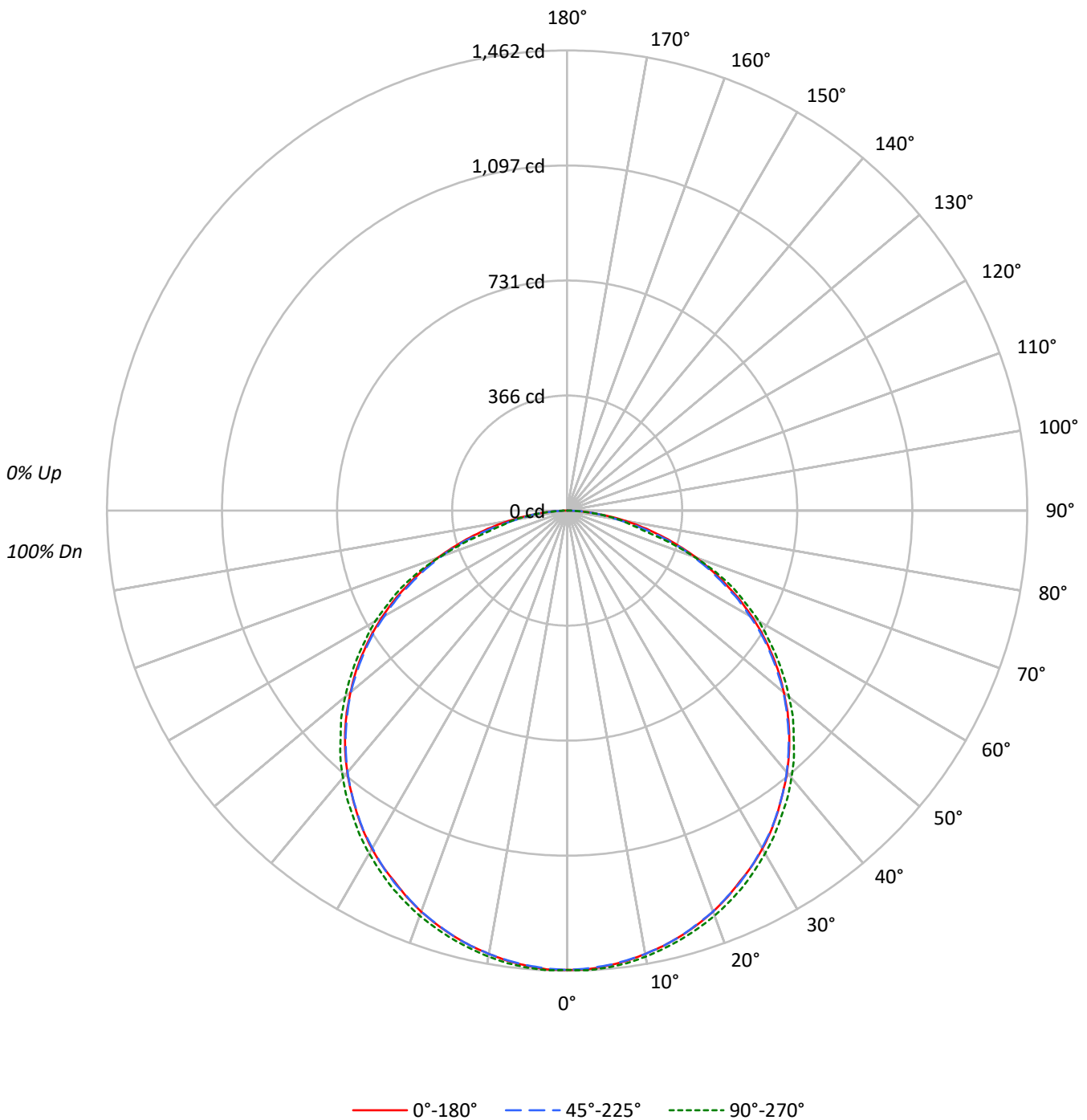
Input Watts (W): 38.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3927	3927	3927
5°	3922	3918	3938
10°	3909	3909	3932
15°	3897	3897	3925
20°	3882	3882	3923
25°	3859	3867	3918
30°	3855	3846	3909
35°	3835	3830	3896
40°	3818	3813	3894
45°	3797	3786	3873
50°	3761	3756	3852
55°	3723	3696	3818
60°	3660	3605	3791
65°	3552	3487	3707
70°	3427	3348	3382
75°	3198	3049	2705
80°	2875	2495	2673
85°	2130	2174	2220



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.0	3.2
10°-20°	395.4	9.2
20°-30°	601.9	14.0
30°-40°	733.0	17.1
40°-50°	772.2	18.0
50°-60°	710.3	16.5
60°-70°	551.7	12.8
70°-80°	309.3	7.2
80°-90°	83.8	1.9
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°	1135.4	26.4
0°-40°	1868.4	43.5
0°-60°	3350.9	78.0
0°-90°	4295.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4295.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1459	1459	1459	1459	1459	
5°	1452	1450	1450	1455	1458	138
15°	1399	1397	1399	1404	1409	395
25°	1300	1300	1302	1310	1320	600
35°	1167	1164	1166	1176	1186	731
45°	998	996	995	1006	1018	769
55°	794	791	788	799	814	709
65°	558	554	548	564	582	553
75°	308	303	293	269	260	326
85°	69	69	70	70	72	87
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1459.2	1459.2	1459.2	1459.2	1459.2
2.5°	1459.2	1457.7	1456.3	1459.2	1462.0
5°	1452.0	1450.5	1450.5	1454.9	1457.7
7.5°	1443.4	1441.9	1441.9	1446.2	1450.5
10°	1430.4	1430.4	1430.4	1434.7	1439.0
12.5°	1416.0	1414.6	1416.0	1420.3	1424.7
15°	1398.8	1397.3	1398.8	1404.5	1408.8
17.5°	1378.7	1375.8	1377.2	1384.4	1390.2
20°	1355.7	1354.2	1355.7	1362.8	1370.0
22.5°	1329.8	1328.3	1328.3	1337.0	1345.6
25°	1299.6	1299.6	1302.5	1309.7	1319.7
27.5°	1272.3	1269.4	1272.3	1280.9	1289.5
30°	1240.6	1237.8	1237.8	1249.3	1257.9
32.5°	1206.1	1201.8	1204.7	1213.3	1224.8
35°	1167.3	1164.5	1165.9	1176.0	1186.0
37.5°	1127.1	1125.6	1127.1	1137.1	1150.1
40°	1086.8	1084.0	1085.4	1096.9	1108.4
42.5°	1043.7	1042.3	1040.8	1052.3	1066.7
45°	997.7	996.3	994.8	1006.3	1017.8
47.5°	950.3	947.4	945.9	957.4	973.3
50°	898.5	898.5	897.1	905.7	920.1
52.5°	848.2	845.3	842.4	852.5	868.3
55°	793.6	790.7	787.8	799.3	813.7
57.5°	737.5	734.6	731.7	740.4	757.6
60°	680.0	677.1	669.9	684.3	704.4
62.5°	621.0	615.3	612.4	625.4	641.2
65°	557.8	553.5	547.7	563.5	582.2
67.5°	497.4	490.2	487.3	498.8	511.8
70°	435.6	429.8	425.5	427.0	429.8
72.5°	370.9	368.0	363.7	350.8	347.9
75°	307.6	303.3	293.3	268.8	260.2
77.5°	247.3	244.4	224.3	204.1	207.0
80°	185.5	182.6	161.0	165.3	172.5
82.5°	129.4	122.2	119.3	117.9	122.2
85°	69.0	69.0	70.4	70.4	71.9
87.5°	28.8	28.8	31.6	31.6	31.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)