

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: P184471

Luminaire Tested: **66EN-LD2-39-UNV-L830-CD1-U**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P184471
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-LD2-39-UNV-L830-CD1-U
Description: METALUX ENCOUNTER 600X600 TROFFER

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

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3629.4 lumens
Efficiency: N/A
Efficacy: 109.0 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

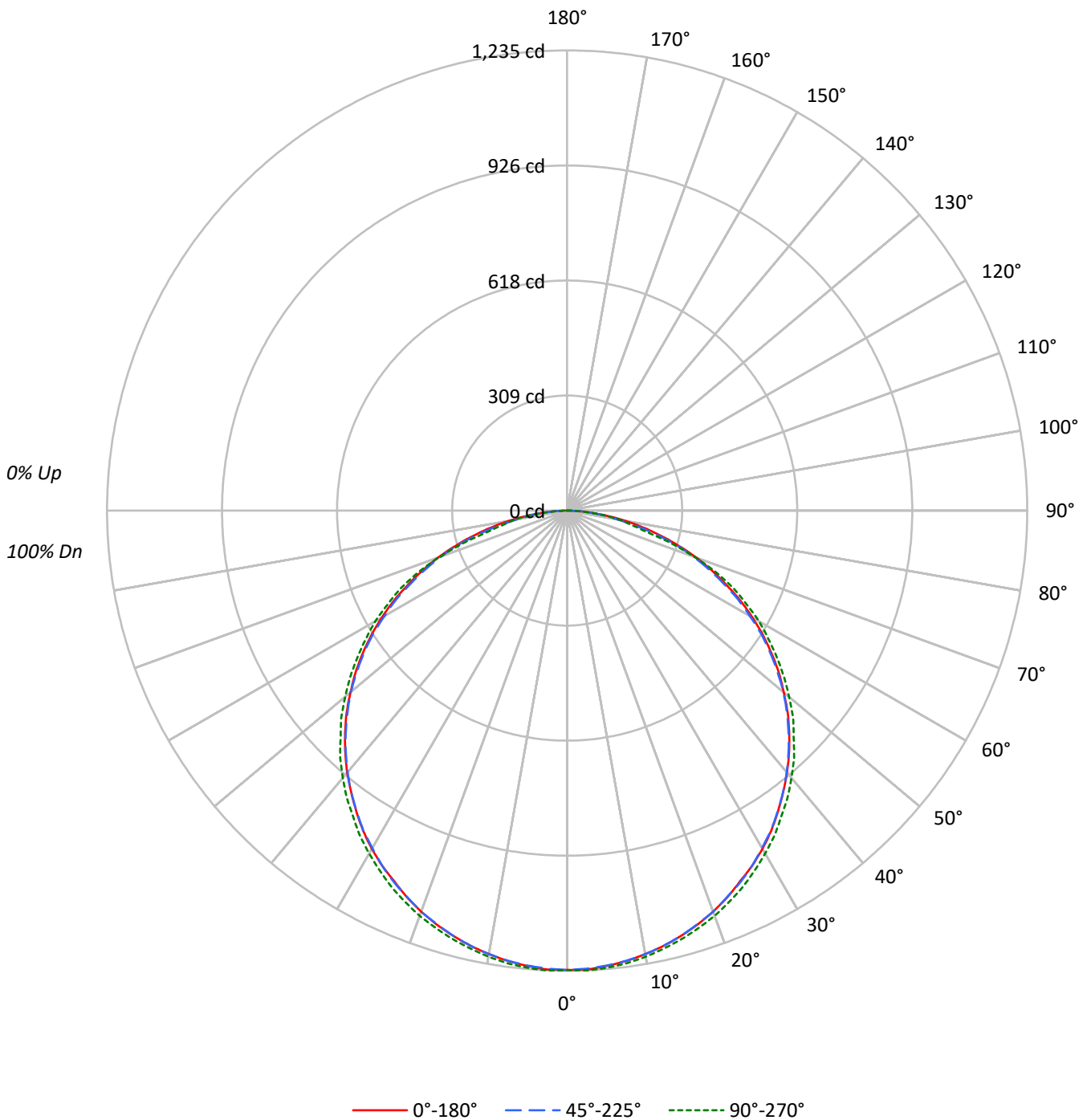
Input Watts (W): 33.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3318	3318	3318
5°	3314	3311	3327
10°	3302	3302	3322
15°	3292	3292	3316
20°	3280	3280	3315
25°	3260	3268	3311
30°	3257	3250	3302
35°	3240	3236	3292
40°	3226	3221	3290
45°	3208	3199	3273
50°	3178	3173	3255
55°	3146	3123	3225
60°	3092	3046	3203
65°	3001	2947	3132
70°	2895	2829	2858
75°	2702	2576	2285
80°	2428	2108	2259
85°	1800	1837	1874



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.6	3.2
10°-20°	334.1	9.2
20°-30°	508.6	14.0
30°-40°	619.3	17.1
40°-50°	652.5	18.0
50°-60°	600.1	16.5
60°-70°	466.2	12.8
70°-80°	261.3	7.2
80°-90°	70.8	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°	959.3	26.4
0°-40°	1578.6	43.5
0°-60°	2831.2	78.0
0°-90°	3629.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3629.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1233	1233	1233	1233	1233	
5°	1227	1226	1226	1229	1232	117
15°	1182	1181	1182	1187	1190	334
25°	1098	1098	1100	1106	1115	507
35°	986	984	985	994	1002	617
45°	843	842	840	850	860	650
55°	670	668	666	675	688	599
65°	471	468	463	476	492	467
75°	260	256	248	227	220	275
85°	58	58	60	60	61	73
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1232.9	1232.9	1232.9	1232.9	1232.9
2.5°	1232.9	1231.6	1230.4	1232.9	1235.3
5°	1226.8	1225.6	1225.6	1229.2	1231.6
7.5°	1219.5	1218.3	1218.3	1221.9	1225.6
10°	1208.6	1208.6	1208.6	1212.2	1215.8
12.5°	1196.4	1195.2	1196.4	1200.1	1203.7
15°	1181.8	1180.6	1181.8	1186.7	1190.3
17.5°	1164.8	1162.4	1163.6	1169.7	1174.5
20°	1145.4	1144.2	1145.4	1151.5	1157.5
22.5°	1123.5	1122.3	1122.3	1129.6	1136.9
25°	1098.0	1098.0	1100.5	1106.5	1115.0
27.5°	1074.9	1072.5	1074.9	1082.2	1089.5
30°	1048.2	1045.8	1045.8	1055.5	1062.8
32.5°	1019.1	1015.4	1017.9	1025.1	1034.9
35°	986.3	983.9	985.1	993.6	1002.1
37.5°	952.3	951.1	952.3	960.8	971.7
40°	918.3	915.8	917.0	926.8	936.5
42.5°	881.8	880.6	879.4	889.1	901.3
45°	843.0	841.7	840.5	850.2	860.0
47.5°	802.9	800.4	799.2	808.9	822.3
50°	759.1	759.1	757.9	765.2	777.4
52.5°	716.6	714.2	711.8	720.3	733.6
55°	670.5	668.0	665.6	675.3	687.5
57.5°	623.1	620.7	618.2	625.5	640.1
60°	574.5	572.1	566.0	578.2	595.2
62.5°	524.7	519.9	517.4	528.4	541.7
65°	471.3	467.6	462.8	476.1	491.9
67.5°	420.3	414.2	411.8	421.5	432.4
70°	368.0	363.2	359.5	360.7	363.2
72.5°	313.4	310.9	307.3	296.4	293.9
75°	259.9	256.3	247.8	227.1	219.8
77.5°	208.9	206.5	189.5	172.5	174.9
80°	156.7	154.3	136.0	139.7	145.8
82.5°	109.3	103.2	100.8	99.6	103.2
85°	58.3	58.3	59.5	59.5	60.7
87.5°	24.3	24.3	26.7	26.7	26.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)