

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: EPHESUS

Report Number: G2-1810-991-1

Luminaire Tested: **G8-N-PC-300-4000**

Test Date: 10/20/18

**Test Information**

Test Method: LM-79-08  
Report Number: G2-1810-991-1  
Test Lab: INNOVATION CENTER(G2)  
Test Date: 10/20/18  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHESUS  
Catalog Number: G8-N-PC-300-4000  
Description: EPHESUS G8 LUMINAIRE. UNIT TESTED EPH-G8-HV-N-PC-WHT-IP. BEAM SHAPE 3, 4000K CCT  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

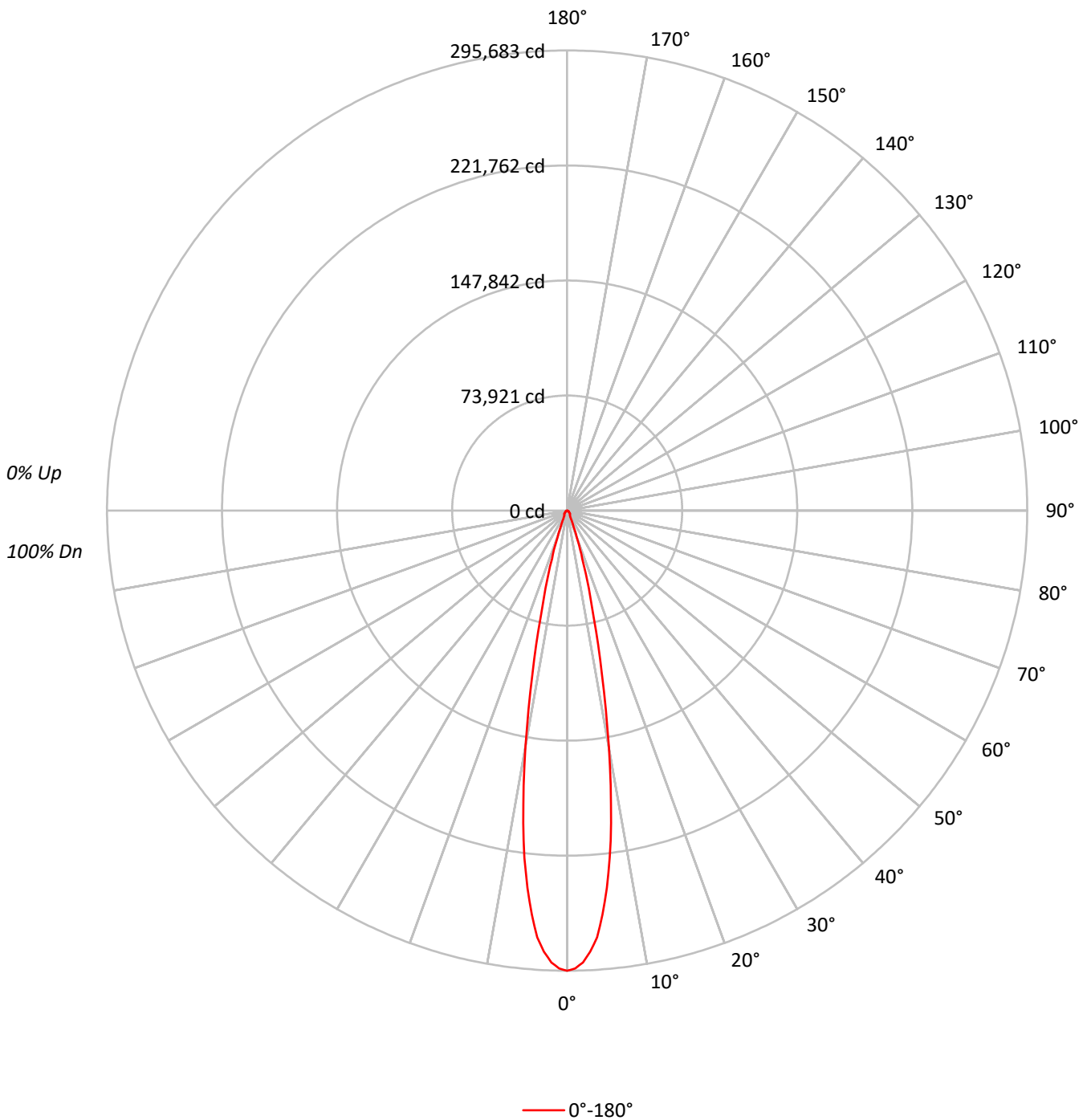
Lumens per Lamp: N/A  
Luminaire Lumens: 47591.2 lumens  
Efficiency: N/A  
Efficacy: 110.0 lumens/watt  
Spacing Criteria (0/90/45): 0.35 / 0.35 / 0.34  
Luminous Opening: Rectangular (W 1.38' x L: 0.92' x H: 0')  
CIE Type: Direct

Input Watts (W): 432.7  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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	115	113	111	109	112	110	109	107	106	105	104		103	102	101		99	99	98	96
2	111	107	104	101	109	105	103	100	102	100	98		99	98	96		97	95	94	93
3	107	102	99	96	105	101	98	95	99	96	93		96	94	92		94	92	91	89
4	104	98	94	91	102	97	94	91	95	92	90		93	91	89		92	89	88	86
5	101	95	91	88	99	94	90	87	92	89	86		91	88	86		89	87	85	84
6	98	92	87	84	97	91	87	84	90	86	84		88	85	83		87	85	83	82
7	95	89	85	82	94	88	84	82	87	84	81		86	83	81		85	83	81	79
8	93	87	82	80	92	86	82	79	85	82	79		84	81	79		83	81	79	78
9	91	84	80	78	90	84	80	77	83	80	77		82	79	77		82	79	77	76
10	89	82	78	76	88	82	78	76	81	78	76		81	78	75		80	77	75	74

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	2525122
5°	2233475
10°	1336969
15°	502659
20°	161576
25°	54266
30°	35362
35°	32965
40°	32564
45°	28176
50°	21417
55°	17450
60°	14279
65°	11094
70°	8390
75°	6863
80°	5902
85°	4115



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	21396.7	45.0
10°-20°	17190.2	36.1
20°-30°	3337.7	7.0
30°-40°	1999.5	4.2
40°-50°	1771.2	3.7
50°-60°	1060.1	2.2
60°-70°	553.2	1.2
70°-80°	227.1	0.5
80°-90°	55.5	0.1
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°	41924.6	88.1
0°-40°	43924.1	92.3
0°-60°	46755.4	98.2
0°-90°	47591.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	47591.2	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	295683	
5°	260537	###
15°	56854	17190
25°	5759	3338
35°	3162	1999
45°	2333	1771
55°	1172	1060
65°	549	553
75°	208	227
85°	42	55
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	295683
1°	294259
2°	290496
3°	283834
4°	274960
5°	260537
6°	243898
7°	224906
8°	202741
9°	178831
10°	154176
11°	130129
12°	107844
13°	88202
14°	70917
15°	56854
17.5°	32357
20°	17779
22.5°	9723
25°	5759
27.5°	4198
30°	3586
32.5°	3301
35°	3162
37.5°	3061
40°	2921
42.5°	2683
45°	2333
47.5°	1941
50°	1612
52.5°	1369
55°	1172
57.5°	991
60°	836
62.5°	680
65°	549
67.5°	427
70°	336
72.5°	268
75°	208
77.5°	158
80°	120
82.5°	80
85°	42
87.5°	22



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CANDELA DISTRIBUTION (continued):

90° |  $\frac{0^\circ}{0}$

(END OF REPORT)