

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: G2-1902-155-1

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

Test Date: 03/06/19

**Test Information**

Test Method: LM-79-08  
Report Number: G2-1902-155-1  
Test Lab: INNOVATION CENTER(G2)  
Test Date: 03/06/19  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHESUS  
Catalog Number: G8-W-PC-300-4000  
Description: EPHESUS G8 LUMINAIRE. UNIT TESTED EPH-G8-HV-W-PC-WHT-IP. BEAM SHAPE 3, 4000K CCT  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

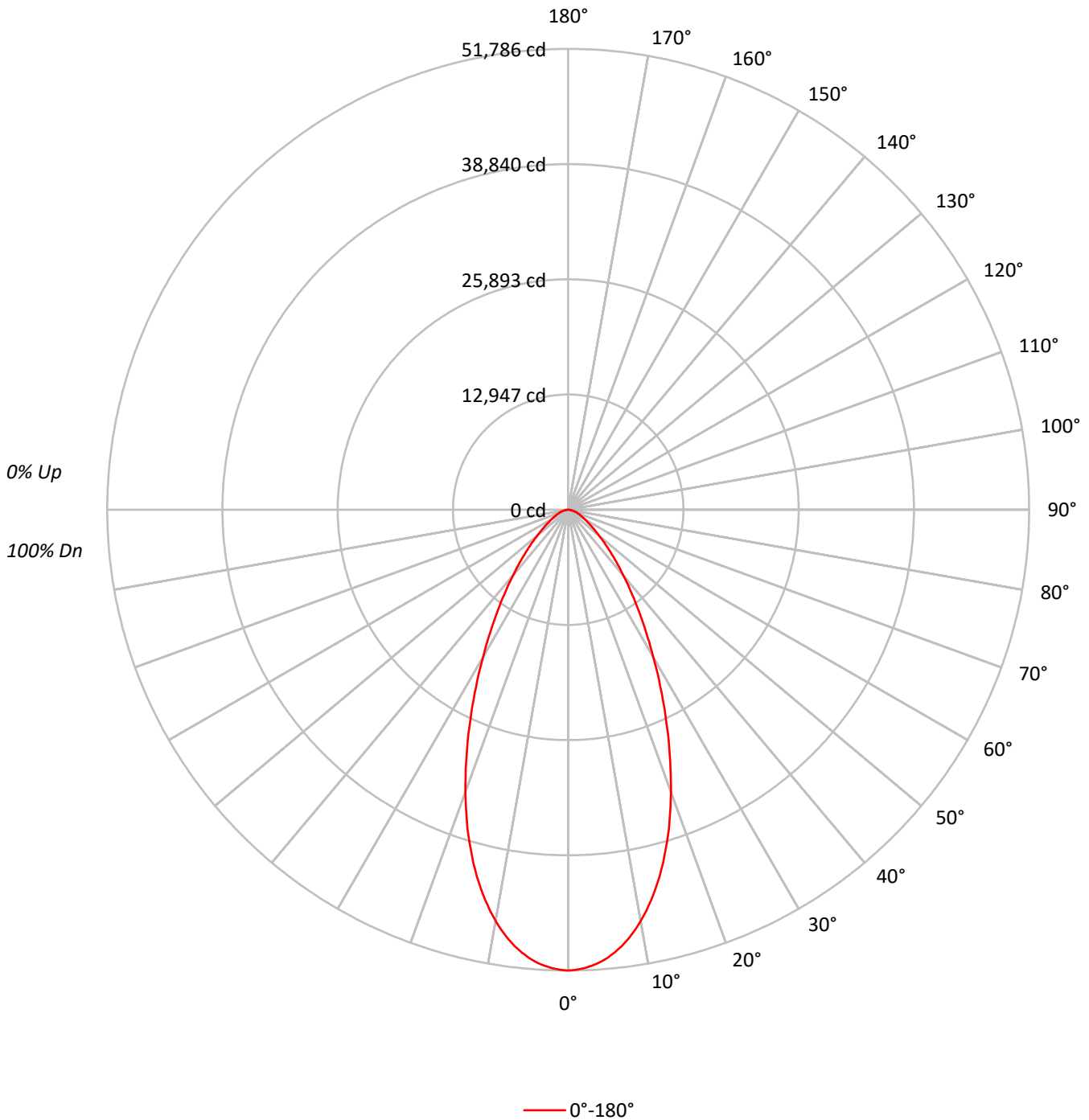
Lumens per Lamp: N/A  
Luminaire Lumens: 47204.7 lumens  
Efficiency: N/A  
Efficacy: 109.1 lumens/watt  
Spacing Criteria (0/90/45): 0.77 / 0.77 / 0.8  
Luminous Opening: Rectangular (W 0.88' x L: 1.38' x H: 0')  
CIE Type: Direct

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	112	109	106	104	110	107	104	102	103	101	99		99	97	96		96	94	93	91
2	106	100	95	91	103	98	94	90	95	91	88		92	89	86		89	87	85	83
3	99	92	86	82	97	90	85	81	88	83	80		85	81	78		83	80	77	75
4	94	85	79	74	92	84	78	73	81	76	72		79	75	71		77	74	71	69
5	88	79	72	67	86	78	72	67	76	70	66		74	69	66		72	68	65	63
6	83	73	67	62	82	72	66	61	71	65	61		69	64	61		68	64	60	59
7	79	68	62	57	77	68	61	57	66	61	57		65	60	56		64	59	56	54
8	75	64	58	53	73	64	57	53	62	57	53		61	56	52		60	56	52	51
9	71	60	54	49	70	60	54	49	59	53	49		58	53	49		57	52	49	47
10	67	57	51	46	66	56	50	46	56	50	46		55	50	46		54	49	46	44

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

	0°
0°	463310
5°	454034
10°	426379
15°	380974
20°	321451
25°	256462
30°	197574
35°	149826
40°	112924
45°	84518
50°	62800
55°	47933
60°	38453
65°	32834
70°	28591
75°	24197
80°	19063
85°	10778



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	4710.9	10.0
10°-20°	11384.5	24.1
20°-30°	11911.2	25.2
30°-40°	8657.5	18.3
40°-50°	5235.9	11.1
50°-60°	2826.7	6.0
60°-70°	1562.7	3.3
70°-80°	760.3	1.6
80°-90°	154.9	0.3
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°	28006.6	59.3
0°-40°	36664.1	77.7
0°-60°	44726.7	94.8
0°-90°	47204.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	47204.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	51786	
5°	50556	###
15°	41132	11384
25°	25980	11911
35°	13718	8658
45°	6680	5236
55°	3073	2827
65°	1551	1563
75°	700	760
85°	105	155
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	51786
1°	51713
2°	51562
3°	51314
4°	50992
5°	50556
6°	50027
7°	49402
8°	48674
9°	47858
10°	46934
11°	45932
12°	44837
13°	43683
14°	42446
15°	41132
17.5°	37600
20°	33763
22.5°	29822
25°	25980
27.5°	22411
30°	19125
32.5°	16225
35°	13718
37.5°	11522
40°	9669
42.5°	8059
45°	6680
47.5°	5495
50°	4512
52.5°	3722
55°	3073
57.5°	2567
60°	2149
62.5°	1834
65°	1551
67.5°	1318
70°	1093
72.5°	917
75°	700
77.5°	537
80°	370
82.5°	245
85°	105
87.5°	35



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CANDELA DISTRIBUTION (continued):

90° |  $\frac{0^\circ}{0}$

(END OF REPORT)