

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: G2-1902-155-2

Luminaire Tested: **G8-W-PC-320-4000**

Test Date: 03/06/19

**Test Information**

Test Method: LM-79-08  
Report Number: G2-1902-155-2  
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-320-4000  
Description: EPHESUS G8 LUMINAIRE. UNIT TESTED EPH-G8-HV-W-PC-WHT-IP. BEAM SHAPE 3.2, 4000K CCT  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

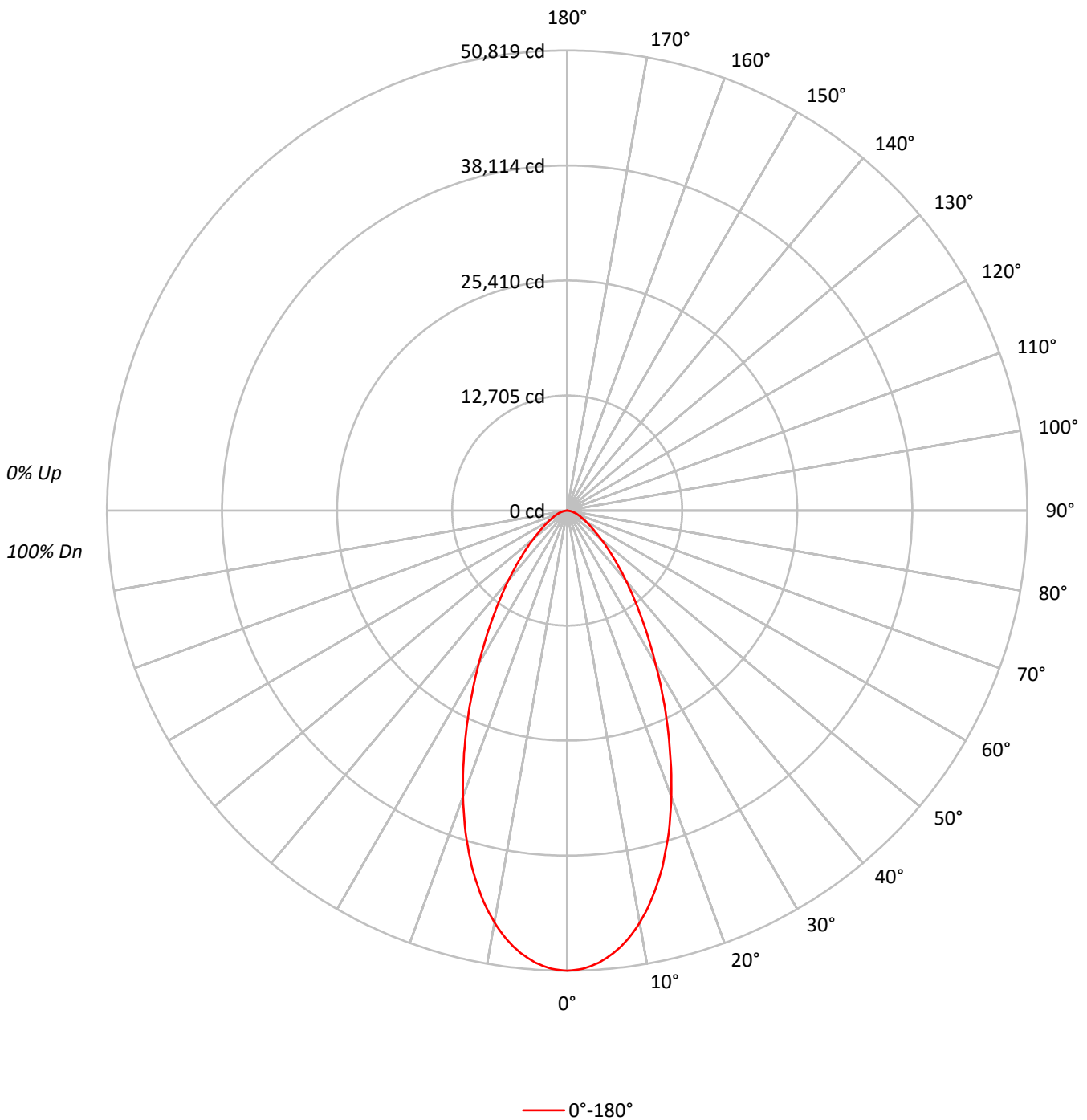
Lumens per Lamp: N/A  
Luminaire Lumens: 48054.8 lumens  
Efficiency: N/A  
Efficacy: 112.7 lumens/watt  
Spacing Criteria (0/90/45): 0.78 / 0.78 / 0.82  
Luminous Opening: Rectangular (W 1.21' x L: 1.38' x H: 0')  
CIE Type: Direct

Input Watts (W): 426.5  
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	103	110	107	104	102	103	101	99		99	97	96		95	94	93	91
2	106	100	95	91	103	98	94	90	95	91	88		92	89	86		89	86	84	82
3	99	92	86	81	97	90	85	80	87	83	79		85	81	78		83	79	77	75
4	93	84	78	73	91	83	77	73	81	76	72		79	74	71		77	73	70	68
5	88	78	71	67	86	77	71	66	75	70	66		74	69	65		72	68	64	63
6	83	73	66	61	81	72	65	61	70	65	60		69	64	60		67	63	59	58
7	78	68	61	56	77	67	61	56	66	60	56		65	59	56		63	59	55	54
8	74	64	57	52	73	63	57	52	62	56	52		61	55	52		60	55	51	50
9	70	60	53	49	69	59	53	49	58	52	48		57	52	48		56	52	48	47
10	67	56	50	46	66	56	50	46	55	49	45		54	49	45		53	49	45	44

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

	0°
0°	329236
5°	322722
10°	303948
15°	272866
20°	231892
25°	187208
30°	146041
35°	111966
40°	85477
45°	64648
50°	48832
55°	37511
60°	30229
65°	25417
70°	22105
75°	19049
80°	14700
85°	8102



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	4629.3	9.6
10°-20°	11265.0	23.4
20°-30°	11997.9	25.0
30°-40°	8936.2	18.6
40°-50°	5535.7	11.5
50°-60°	3050.3	6.3
60°-70°	1675.6	3.5
70°-80°	808.0	1.7
80°-90°	156.6	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°	27892.3	58.0
0°-40°	36828.5	76.6
0°-60°	45414.6	94.5
0°-90°	48054.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	48054.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	50819	
5°	49624	###
15°	40683	11265
25°	26189	11998
35°	14157	8936
45°	7056	5536
55°	3321	3050
65°	1658	1676
75°	761	808
85°	109	157
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	50819
1°	50750
2°	50613
3°	50382
4°	50048
5°	49624
6°	49142
7°	48544
8°	47862
9°	47068
10°	46203
11°	45242
12°	44219
13°	43095
14°	41900
15°	40683
17.5°	37289
20°	33635
22.5°	29855
25°	26189
27.5°	22721
30°	19522
32.5°	16657
35°	14157
37.5°	12003
40°	10107
42.5°	8482
45°	7056
47.5°	5865
50°	4845
52.5°	4001
55°	3321
57.5°	2784
60°	2333
62.5°	1975
65°	1658
67.5°	1399
70°	1167
72.5°	960
75°	761
77.5°	565
80°	394
82.5°	233
85°	109
87.5°	37



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CANDELA DISTRIBUTION (continued):

90° |  $\frac{0^\circ}{0}$

(END OF REPORT)