

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: G2-1810-991-4

Luminaire Tested: **G8-N-PC-350-4000**

Test Date: 10/22/18

**Test Information**

Test Method: LM-79-08  
Report Number: G2-1810-991-4  
Test Lab: INNOVATION CENTER(G2)  
Test Date: 10/22/18  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHESUS  
Catalog Number: G8-N-PC-350-4000  
Description: EPHESUS G8 LUMINAIRE. UNIT TESTED EPH-G8-HV-N-PC-WHT-IP. BEAM SHAPE 3.5, 4000K CCT  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

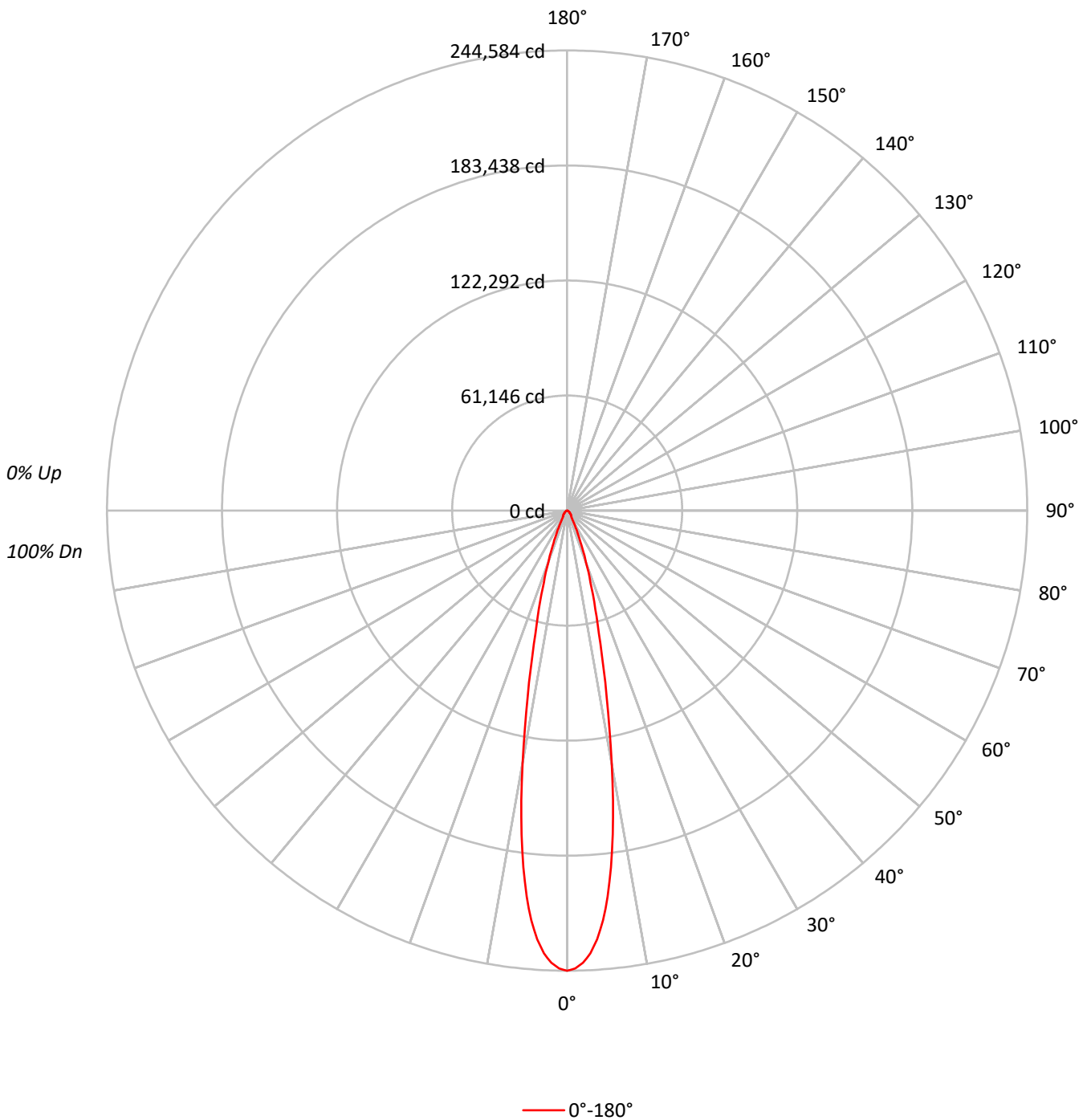
Lumens per Lamp: N/A  
Luminaire Lumens: 49599.2 lumens  
Efficiency: N/A  
Efficacy: 119.7 lumens/watt  
Spacing Criteria (0/90/45): 0.37 / 0.37 / 0.37  
Luminous Opening: Rectangular (W 1.38' x L: 0.92' x H: 0')  
CIE Type: Direct

Input Watts (W): 414.4  
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	114	112	110	108	112	110	108	106	106	105	103	102	101	100	99	98	97	96
2	110	106	103	100	108	104	101	99	101	99	97	98	96	95	96	94	93	91
3	106	101	97	94	104	100	96	93	97	94	92	95	92	90	93	91	89	87
4	102	96	92	89	101	95	91	88	93	90	87	91	89	86	90	87	85	84
5	99	93	88	85	98	92	87	84	90	86	84	88	85	83	87	84	82	81
6	96	89	84	81	95	88	84	81	87	83	80	86	82	80	85	82	79	78
7	93	86	81	78	92	85	81	78	84	80	78	83	80	77	82	79	77	76
8	90	83	79	76	89	83	78	75	82	78	75	81	77	75	80	77	75	74
9	88	81	76	73	87	80	76	73	79	76	73	79	75	73	78	75	72	71
10	85	78	74	71	85	78	74	71	77	73	71	77	73	71	76	73	71	70

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

	0°
0°	2088738
5°	1874730
10°	1183636
15°	550658
20°	268306
25°	122883
30°	58555
35°	40023
40°	35774
45°	30676
50°	23981
55°	19460
60°	15918
65°	12407
70°	9563
75°	7886
80°	6639
85°	5585



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	18172.4	36.6
10°-20°	18266.4	36.8
20°-30°	6537.7	13.2
30°-40°	2547.1	5.1
40°-50°	1940.6	3.9
50°-60°	1184.1	2.4
60°-70°	620.9	1.3
70°-80°	263.5	0.5
80°-90°	66.5	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°	42976.4	86.6
0°-40°	45523.5	91.8
0°-60°	48648.3	98.1
0°-90°	49599.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	49599.2	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	244584	
5°	218689	###
15°	62283	18266
25°	13041	6538
35°	3839	2547
45°	2540	1941
55°	1307	1184
65°	614	621
75°	239	263
85°	57	67
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	244584
1°	243438
2°	240555
3°	235660
4°	228453
5°	218689
6°	206227
7°	191119
8°	173817
9°	155828
10°	136494
11°	118010
12°	100961
13°	85983
14°	72914
15°	62283
17.5°	42852
20°	29523
22.5°	19853
25°	13041
27.5°	8588
30°	5938
32.5°	4519
35°	3839
37.5°	3480
40°	3209
42.5°	2916
45°	2540
47.5°	2140
50°	1805
52.5°	1530
55°	1307
57.5°	1107
60°	932
62.5°	770
65°	614
67.5°	475
70°	383
72.5°	316
75°	239
77.5°	186
80°	135
82.5°	95
85°	57
87.5°	25



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CANDELA DISTRIBUTION (continued):

90° |  $\frac{0^\circ}{0}$

(END OF REPORT)