

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: G2-1810-991-13

Luminaire Tested: **G8-N-PC-500-4000**

Test Date: 10/24/18

**Test Information**

Test Method: LM-79-08  
Report Number: G2-1810-991-13  
Test Lab: INNOVATION CENTER(G2)  
Test Date: 10/24/18  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHESUS  
Catalog Number: G8-N-PC-500-4000  
Description: EPHESUS G8 LUMINAIRE. UNIT TESTED EPH-G8-HV-N-PC-WHT-IP. BEAM SHAPE 5, 4000K CCT  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

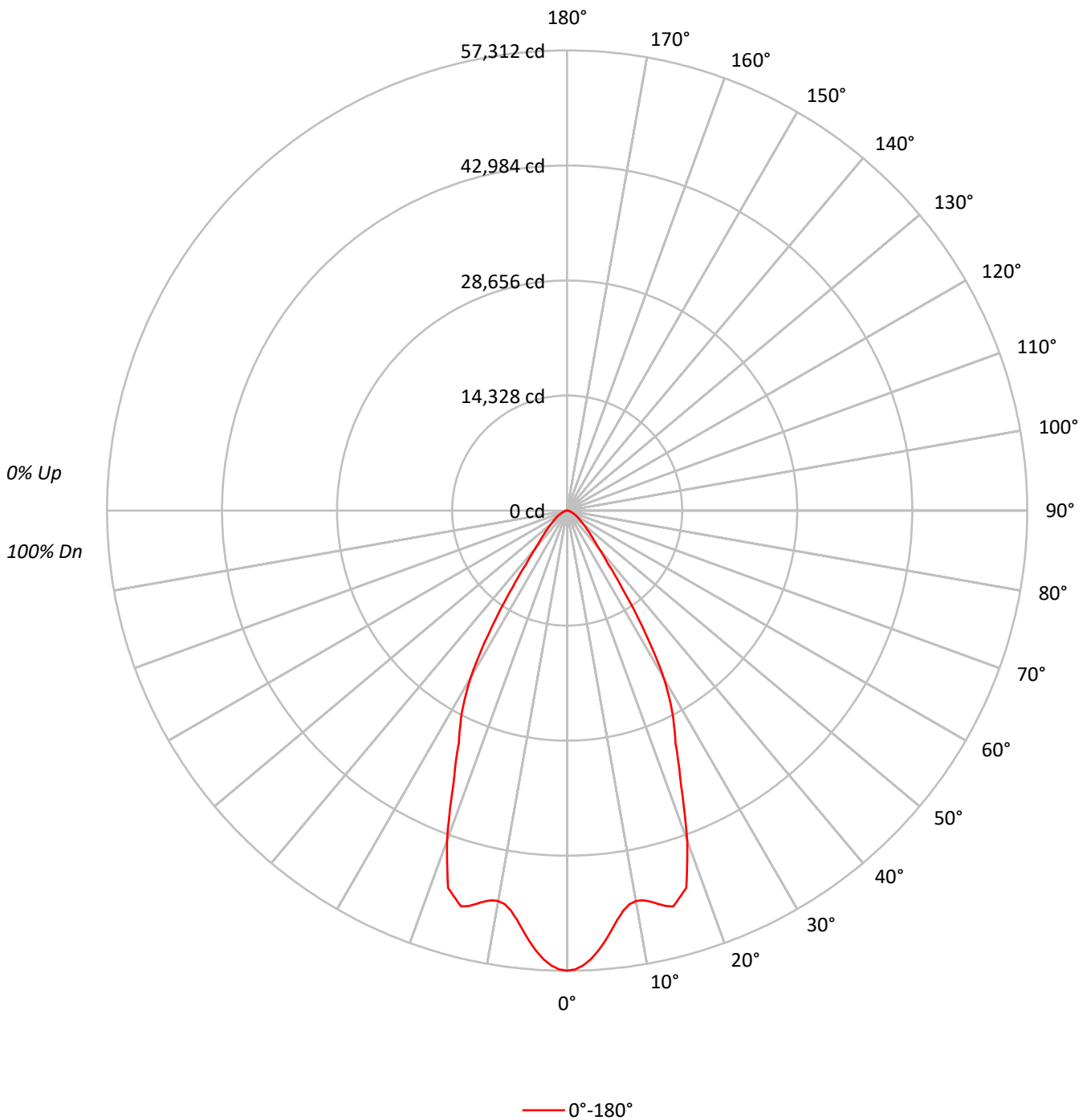
Lumens per Lamp: N/A  
Luminaire Lumens: 48237.9 lumens  
Efficiency: N/A  
Efficacy: 120.7 lumens/watt  
Spacing Criteria (0/90/45): 0.84 / 0.84 / 0.84  
Luminous Opening: Rectangular (W 1.38' x L: 0.92' x H: 0')  
CIE Type: Direct

Input Watts (W): 399.8  
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	113	110	108	105	111	108	106	103	104	102	100	100	99	97	97	96	94	93
2	107	102	98	94	105	100	96	93	97	94	91	94	91	89	91	89	87	86
3	101	95	90	85	99	93	89	85	91	87	83	88	85	82	86	83	81	79
4	96	88	82	78	94	87	82	78	85	80	77	83	79	76	81	78	75	73
5	91	82	76	72	90	82	76	72	80	75	71	78	74	70	76	73	70	68
6	87	77	71	67	85	77	71	66	75	70	66	74	69	66	72	68	65	64
7	82	73	66	62	81	72	66	62	71	65	62	69	65	61	68	64	61	60
8	78	68	62	58	77	68	62	58	67	62	58	66	61	58	65	60	57	56
9	74	65	59	55	73	64	58	54	63	58	54	62	58	54	61	57	54	53
10	71	61	55	51	70	61	55	51	60	55	51	59	54	51	58	54	51	50

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

	0°
0°	489442
5°	461779
10°	428226
15°	451291
20°	397438
25°	301030
30°	237889
35°	130880
40°	68360
45°	47053
50°	34570
55°	27172
60°	22153
65°	17297
70°	13733
75°	10988
80°	8902
85°	7545



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	4966.1	10.3
10°-20°	13897.4	28.8
20°-30°	14944.8	31.0
30°-40°	8316.9	17.2
40°-50°	3108.0	6.4
50°-60°	1675.5	3.5
60°-70°	870.9	1.8
70°-80°	367.9	0.8
80°-90°	90.4	0.2
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°	33808.3	70.1
0°-40°	42125.2	87.3
0°-60°	46908.7	97.2
0°-90°	48237.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	48237.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	57312	
5°	53867	###
15°	51044	13897
25°	31947	14945
35°	12554	8317
45°	3896	3108
55°	1825	1675
65°	856	871
75°	333	368
85°	77	90
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	57312
1°	57156
2°	56702
3°	55988
4°	55013
5°	53867
6°	52604
7°	51331
8°	50314
9°	49651
10°	49382
11°	49450
12°	49782
13°	50273
14°	50767
15°	51044
17.5°	49289
20°	43732
22.5°	37052
25°	31947
27.5°	28411
30°	24124
32.5°	18274
35°	12554
37.5°	8457
40°	6132
42.5°	4792
45°	3896
47.5°	3184
50°	2602
52.5°	2188
55°	1825
57.5°	1557
60°	1297
62.5°	1064
65°	856
67.5°	685
70°	550
72.5°	438
75°	333
77.5°	260
80°	181
82.5°	135
85°	77
87.5°	30



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CANDELA DISTRIBUTION (continued):

90° |  $\frac{0^\circ}{0}$

(END OF REPORT)