

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: G2-1810-991-45

Luminaire Tested: **G8-N-PC-450-5000**

Test Date: 11/03/18

**Test Information**

Test Method: LM-79-08  
Report Number: G2-1810-991-45  
Test Lab: INNOVATION CENTER(G2)  
Test Date: 11/03/18  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHESUS  
Catalog Number: G8-N-PC-450-5000  
Description: EPHESUS G8 LUMINAIRE. UNIT TESTED EPH-G8-HV-N-PC-WHT-IP. BEAM SHAPE 4.5, 5000K CCT  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

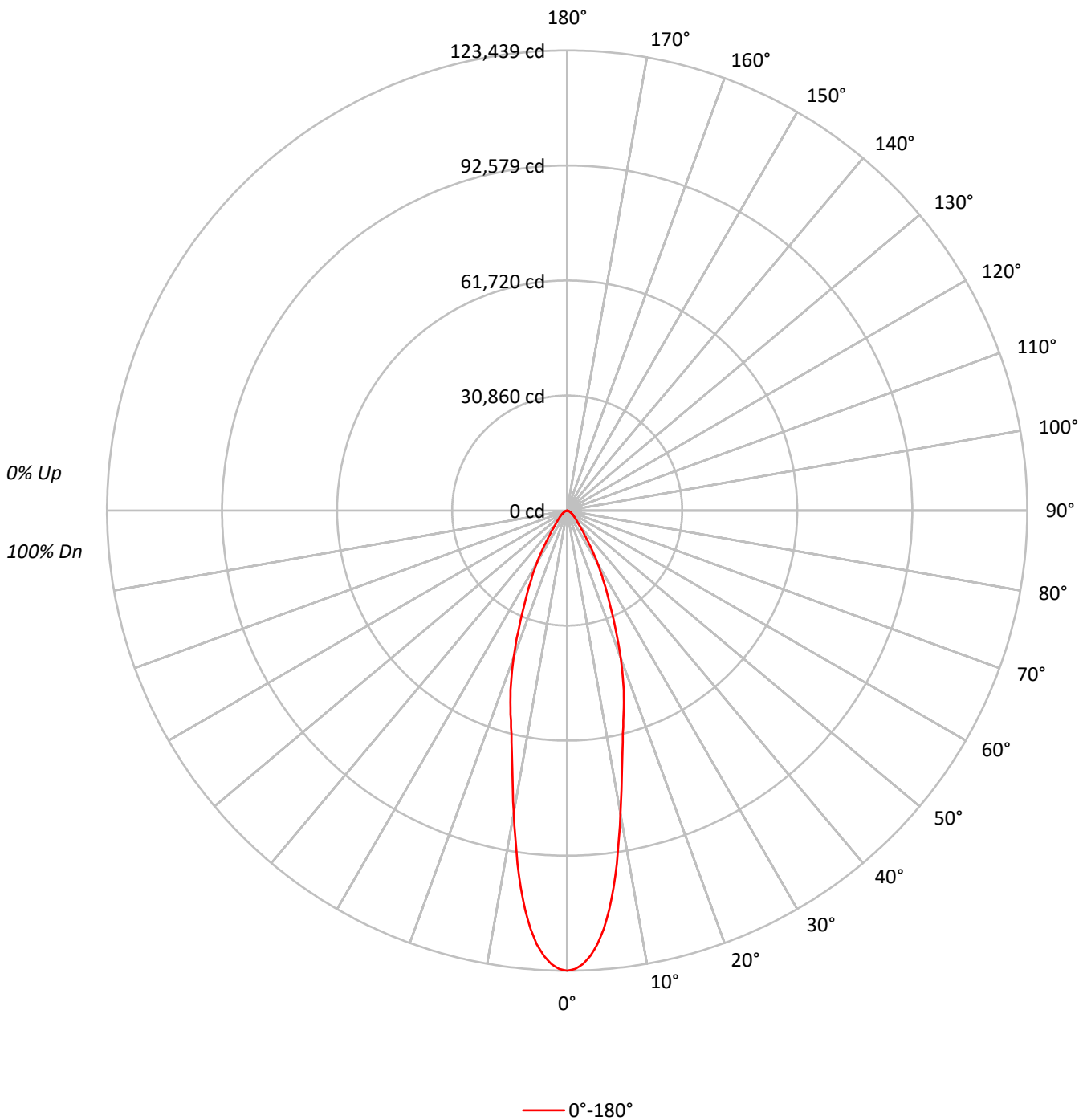
Lumens per Lamp: N/A  
Luminaire Lumens: 49592.3 lumens  
Efficiency: N/A  
Efficacy: 127.6 lumens/watt  
Spacing Criteria (0/90/45): 0.46 / 0.46 / 0.55  
Luminous Opening: Rectangular (W 1.38' x L: 0.92' x H: 0')  
CIE Type: Direct

Input Watts (W): 388.6  
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	111	109	106	111	109	107	105	105	103	101		101	100	98		98	97	96	94
2	108	104	100	96	106	102	98	95	99	96	93		96	93	91		93	91	89	88
3	103	97	92	89	101	96	91	88	93	90	87		91	88	85		89	86	84	82
4	99	91	86	82	97	90	86	82	88	84	81		86	83	80		84	81	79	78
5	94	86	81	77	93	85	80	77	84	79	76		82	78	75		81	77	75	73
6	90	82	76	72	89	81	76	72	80	75	72		78	74	71		77	73	71	69
7	86	78	72	68	85	77	72	68	76	71	68		75	71	67		74	70	67	66
8	83	74	69	65	82	74	68	65	73	68	64		72	67	64		71	67	64	63
9	80	71	65	62	79	70	65	62	69	65	61		69	64	61		68	64	61	60
10	77	68	63	59	76	67	62	59	67	62	59		66	62	59		65	61	58	57

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

	0°
0°	1054164
5°	965504
10°	715208
15°	515364
20°	382143
25°	247518
30°	161387
35°	90242
40°	54503
45°	40616
50°	31142
55°	24701
60°	19932
65°	15640
70°	12285
75°	10559
80°	8902
85°	6663



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	9744.1	19.6
10°-20°	16352.3	33.0
20°-30°	12353.4	24.9
30°-40°	5777.5	11.7
40°-50°	2643.7	5.3
50°-60°	1510.0	3.0
60°-70°	787.5	1.6
70°-80°	339.9	0.7
80°-90°	83.9	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°	38449.8	77.5
0°-40°	44227.3	89.2
0°-60°	48381.0	97.6
0°-90°	49592.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	49592.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	123439	
5°	112627	###
15°	58291	16352
25°	26268	12353
35°	8656	5778
45°	3363	2644
55°	1659	1510
65°	774	787
75°	320	340
85°	68	84
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	123439
1°	122983
2°	121727
3°	119625
4°	116600
5°	112627
6°	107703
7°	101970
8°	95614
9°	88969
10°	82476
11°	76360
12°	70793
13°	65995
14°	61805
15°	58291
17.5°	50481
20°	42049
22.5°	33385
25°	26268
27.5°	20873
30°	16366
32.5°	12107
35°	8656
37.5°	6298
40°	4889
42.5°	4025
45°	3363
47.5°	2788
50°	2344
52.5°	1961
55°	1659
57.5°	1401
60°	1167
62.5°	961
65°	774
67.5°	626
70°	492
72.5°	391
75°	320
77.5°	242
80°	181
82.5°	121
85°	68
87.5°	29



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CANDELA DISTRIBUTION (continued):

90° |  $\frac{0^\circ}{0}$

(END OF REPORT)