

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: G2-1810-991-30

Luminaire Tested: **G8-N-PC-450-3000**

Test Date: 10/27/18

**Test Information**

Test Method: LM-79-08  
Report Number: G2-1810-991-30  
Test Lab: INNOVATION CENTER(G2)  
Test Date: 10/27/18  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHESUS  
Catalog Number: G8-N-PC-450-3000  
Description: EPHESUS G8 LUMINAIRE. UNIT TESTED EPH-G8-HV-N-PC-WHT-IP. BEAM SHAPE 4.5, 3000K CCT  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

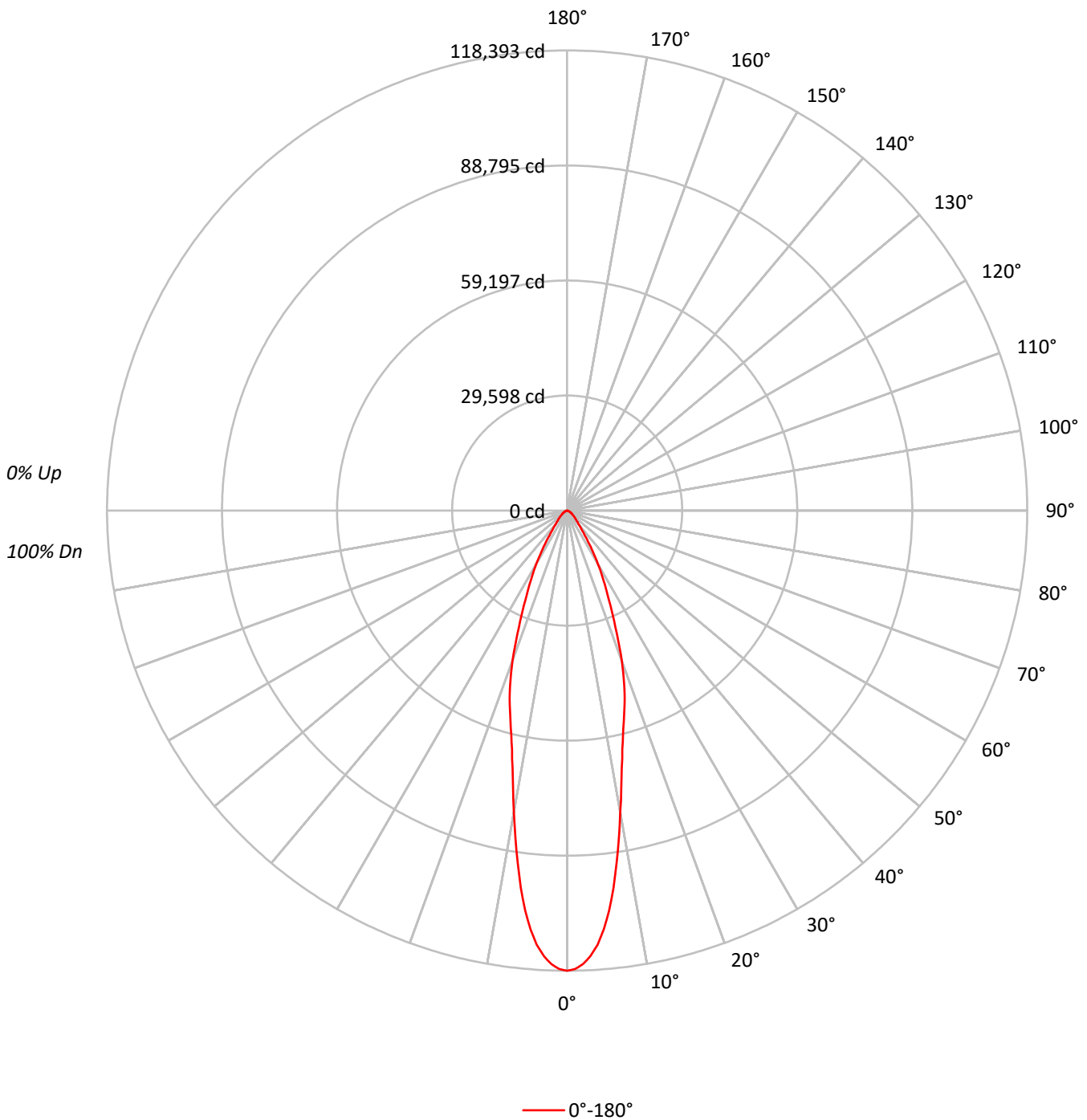
Lumens per Lamp: N/A  
Luminaire Lumens: 47678.5 lumens  
Efficiency: N/A  
Efficacy: 111.1 lumens/watt  
Spacing Criteria (0/90/45): 0.46 / 0.46 / 0.55  
Luminous Opening: Rectangular (W 1.38' x L: 0.92' x H: 0')  
CIE Type: Direct

Input Watts (W): 429.3  
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	114	111	109	106	111	109	107	105	105	103	101		101	100	98		98	97	96	94
2	108	104	100	97	106	102	98	95	99	96	93		96	93	91		93	91	89	88
3	103	97	93	89	101	96	92	88	93	90	87		91	88	85		89	86	84	82
4	99	92	86	82	97	90	86	82	88	84	81		86	83	80		85	82	79	78
5	94	87	81	77	93	86	81	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	74	71	69
7	86	78	72	69	85	77	72	68	76	71	68		75	71	68		74	70	67	66
8	83	74	69	65	82	74	69	65	73	68	65		72	67	64		71	67	64	63
9	80	71	66	62	79	70	65	62	70	65	62		69	64	61		68	64	61	60
10	77	68	63	59	76	67	62	59	67	62	59		66	62	59		65	61	59	57

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

	0°
0°	1011072
5°	927296
10°	683322
15°	497310
20°	372882
25°	239358
30°	156407
35°	86708
40°	51504
45°	38189
50°	29335
55°	22914
60°	18566
65°	14549
70°	11336
75°	9272
80°	7672
85°	6369



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	9343.1	19.6
10°-20°	15781.8	33.1
20°-30°	11991.1	25.1
30°-40°	5560.5	11.7
40°-50°	2492.0	5.2
50°-60°	1407.8	3.0
60°-70°	728.4	1.5
70°-80°	305.6	0.6
80°-90°	68.0	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°	37116.0	77.8
0°-40°	42676.5	89.5
0°-60°	46576.4	97.7
0°-90°	47678.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	47678.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	118393	
5°	108170	###
15°	56249	15782
25°	25402	11991
35°	8317	5561
45°	3162	2492
55°	1539	1408
65°	720	728
75°	281	306
85°	65	68
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

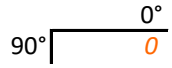
0°	
0°	118393
1°	117959
2°	116773
3°	114808
4°	111996
5°	108170
6°	103417
7°	97790
8°	91550
9°	85226
10°	78799
11°	72923
12°	67626
13°	63116
14°	59405
15°	56249
17.5°	49222
20°	41030
22.5°	32450
25°	25402
27.5°	20241
30°	15861
32.5°	11754
35°	8317
37.5°	5982
40°	4620
42.5°	3791
45°	3162
47.5°	2634
50°	2208
52.5°	1826
55°	1539
57.5°	1306
60°	1087
62.5°	886
65°	720
67.5°	575
70°	454
72.5°	360
75°	281
77.5°	214
80°	156
82.5°	96
85°	65
87.5°	11



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CANDELA DISTRIBUTION (continued):



(END OF REPORT)