

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: G2-1810-991-55

Luminaire Tested: **G8-N-PC-450-6500**

Test Date: 11/07/18

**Test Information**

Test Method: LM-79-08  
Report Number: G2-1810-991-55  
Test Lab: INNOVATION CENTER(G2)  
Test Date: 11/07/18  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHESUS  
Catalog Number: G8-N-PC-450-6500  
Description: EPHESUS G8 LUMINAIRE. UNIT TESTED EPH-G8-HV-N-PC-WHT-IP. BEAM SHAPE 4.5, 6500K CCT  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

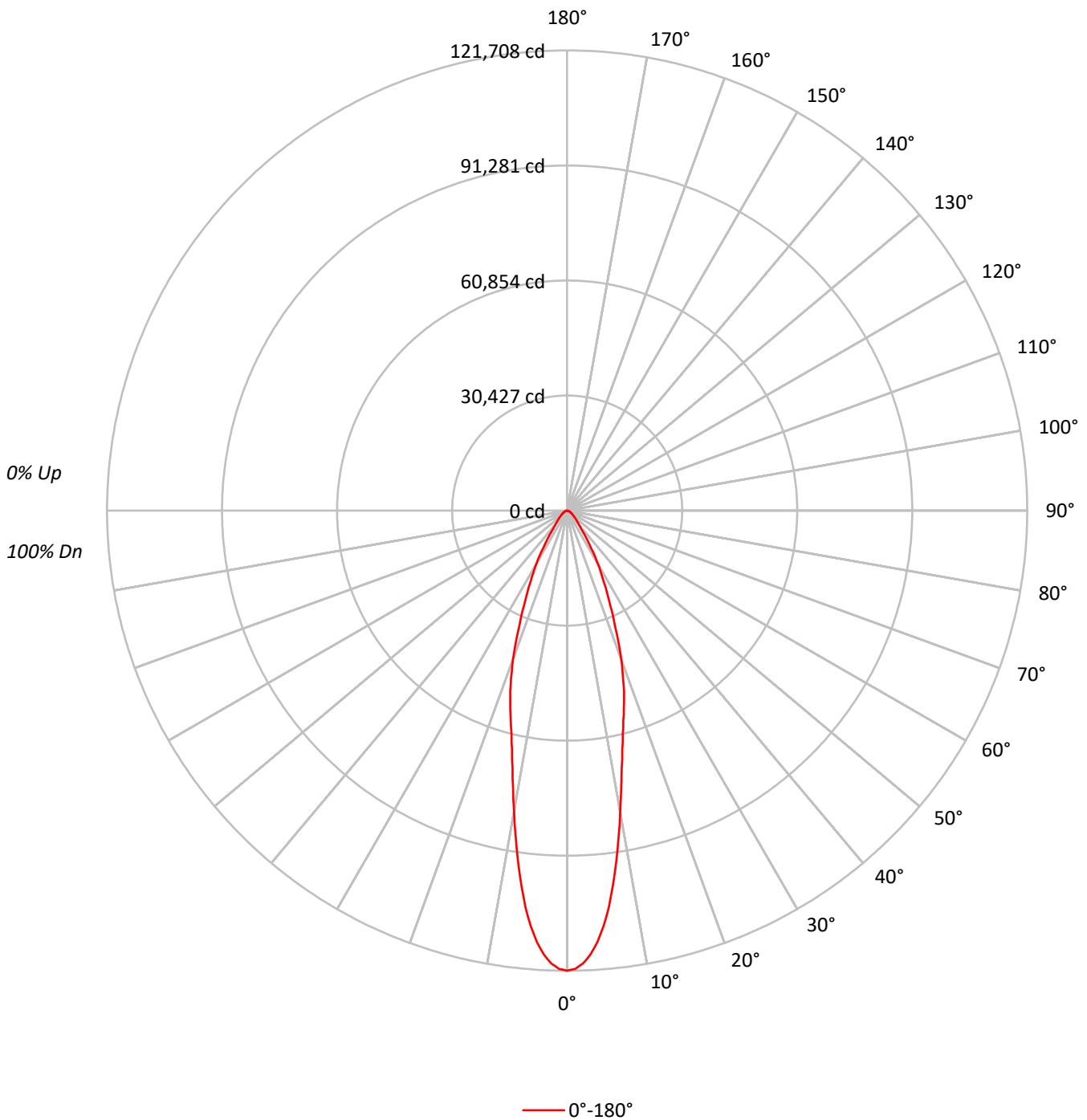
Lumens per Lamp: N/A  
Luminaire Lumens: 48975.3 lumens  
Efficiency: N/A  
Efficacy: 119.0 lumens/watt  
Spacing Criteria (0/90/45): 0.46 / 0.46 / 0.55  
Luminous Opening: Rectangular (W 1.38' x L: 0.92' x H: 0')  
CIE Type: Direct

Input Watts (W): 411.5  
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	114	111	108	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	89	86	91	88	85	89	86	84	82
4	99	91	86	82	97	90	85	82	88	84	81	86	83	80	84	81	79	77
5	94	86	81	77	93	85	80	76	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	72	68	64	71	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	62	59	76	67	62	59	67	62	59	66	62	59	65	61	58	57

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

	0°
0°	1039382
5°	946122
10°	701472
15°	508406
20°	379498
25°	245879
30°	160134
35°	89523
40°	53600
45°	39759
50°	30398
55°	24403
60°	19659
65°	15317
70°	12460
75°	10526
80°	8459
85°	7937



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	9551.9	19.5
10°-20°	16133.3	32.9
20°-30°	12271.8	25.1
30°-40°	5722.3	11.7
40°-50°	2596.0	5.3
50°-60°	1484.6	3.0
60°-70°	780.8	1.6
70°-80°	341.9	0.7
80°-90°	92.8	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°	37956.9	77.5
0°-40°	43679.2	89.2
0°-60°	47759.8	97.5
0°-90°	48975.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	48975.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	121708	
5°	110366	###
15°	57504	16133
25°	26094	12272
35°	8587	5722
45°	3292	2596
55°	1639	1485
65°	758	781
75°	319	342
85°	81	93
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	121708
1°	121233
2°	119867
3°	117613
4°	114446
5°	110366
6°	105438
7°	99762
8°	93569
9°	87204
10°	80892
11°	74953
12°	69568
13°	64909
14°	60915
15°	57504
17.5°	49976
20°	41758
22.5°	33194
25°	26094
27.5°	20726
30°	16239
32.5°	12005
35°	8587
37.5°	6218
40°	4808
42.5°	3936
45°	3292
47.5°	2766
50°	2288
52.5°	1919
55°	1639
57.5°	1384
60°	1151
62.5°	952
65°	758
67.5°	628
70°	499
72.5°	394
75°	319
77.5°	249
80°	172
82.5°	124
85°	81
87.5°	50



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CANDELA DISTRIBUTION (continued):

90° |  $\frac{0^\circ}{0}$

(END OF REPORT)