

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: G2-1810-991-49

Luminaire Tested: **G8-N-PC-400-6000**

Test Date: 11/05/18

**Test Information**

Test Method: LM-79-08  
Report Number: G2-1810-991-49  
Test Lab: INNOVATION CENTER(G2)  
Test Date: 11/05/18  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHESUS  
Catalog Number: G8-N-PC-400-6000  
Description: EPHESUS G8 LUMINAIRE. UNIT TESTED EPH-G8-HV-N-PC-WHT-IP. BEAM SHAPE 4, 6000K CCT  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

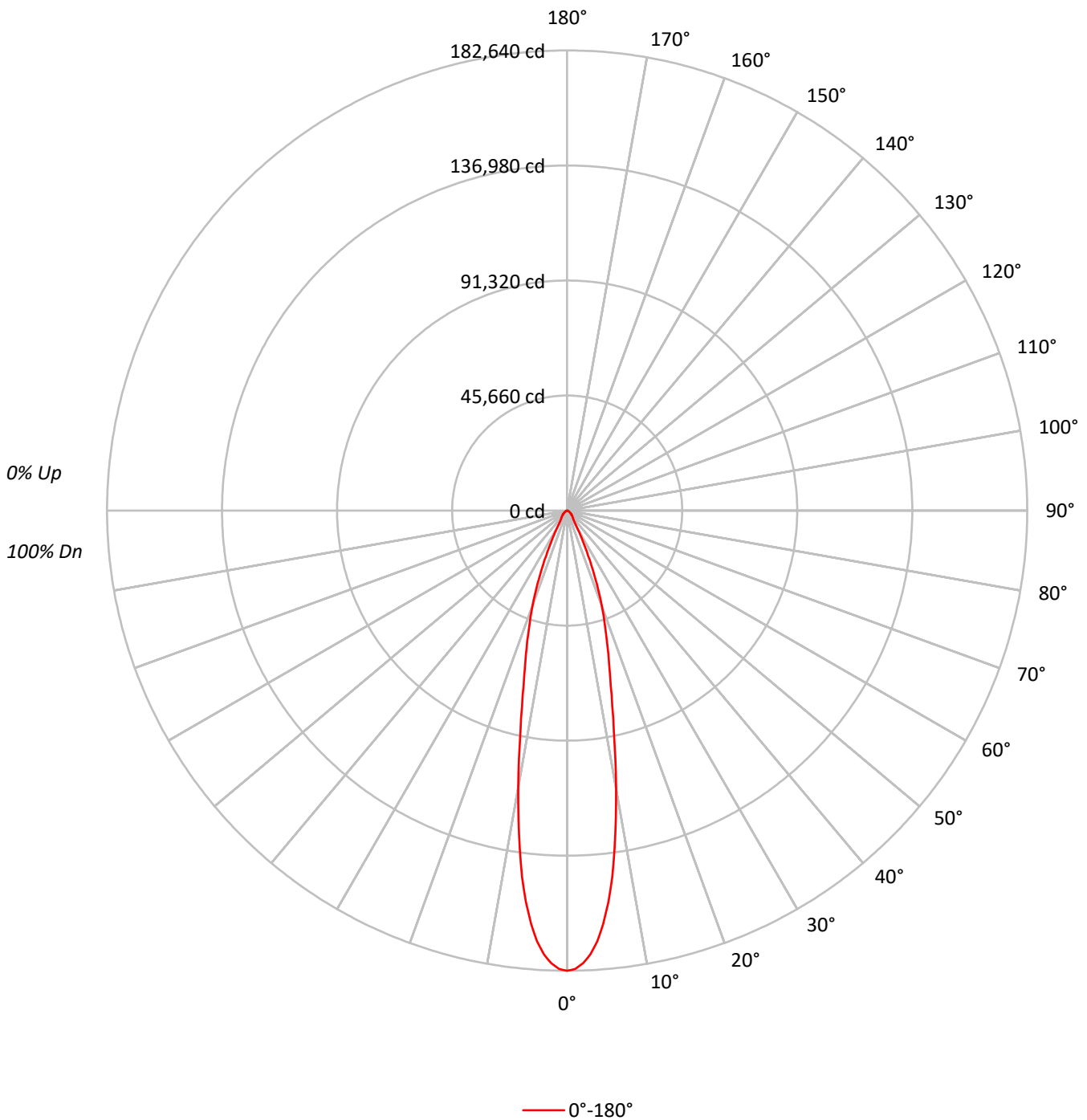
Lumens per Lamp: N/A  
Luminaire Lumens: 49240.4 lumens  
Efficiency: N/A  
Efficacy: 116.1 lumens/watt  
Spacing Criteria (0/90/45): 0.4 / 0.4 / 0.44  
Luminous Opening: Rectangular (W 1.38' x L: 0.92' x H: 0')  
CIE Type: Direct

Input Watts (W): 424.3  
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	109	107	112	110	108	106	106	104	103	102	101	99	98	97	97	95
2	109	105	102	99	107	104	100	98	100	98	95	97	95	93	95	93	92	90
3	105	100	95	92	103	98	94	91	96	92	90	93	91	88	91	89	87	86
4	101	95	90	86	99	94	89	86	91	88	85	90	86	84	88	85	83	82
5	97	90	85	82	96	89	85	81	88	84	81	86	83	80	85	82	79	78
6	94	86	81	78	92	86	81	78	84	80	77	83	79	77	82	79	76	75
7	90	83	78	74	89	82	78	74	81	77	74	80	76	74	79	76	73	72
8	87	80	75	72	86	79	75	71	78	74	71	77	74	71	76	73	71	69
9	85	77	72	69	84	76	72	69	76	71	69	75	71	68	74	71	68	67
10	82	74	70	66	81	74	69	66	73	69	66	72	69	66	72	68	66	65

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

	0°
0°	1559739
5°	1411416
10°	968005
15°	571549
20°	363721
25°	186213
30°	79530
35°	45601
40°	37770
45°	31957
50°	25602
55°	20651
60°	16397
65°	12852
70°	10337
75°	8414
80°	7229
85°	6173



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	13967.9	28.4
10°-20°	18471.8	37.5
20°-30°	9483.4	19.3
30°-40°	3006.5	6.1
40°-50°	2036.4	4.1
50°-60°	1258.3	2.6
60°-70°	655.3	1.3
70°-80°	285.3	0.6
80°-90°	75.5	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°	41923.1	85.1
0°-40°	44929.6	91.2
0°-60°	48224.3	97.9
0°-90°	49240.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	49240.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	182640	
5°	164643	###
15°	64646	18472
25°	19762	9483
35°	4374	3007
45°	2646	2036
55°	1387	1258
65°	636	655
75°	255	285
85°	63	75
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	182640
1°	181953
2°	179808
3°	176350
4°	171300
5°	164643
6°	156251
7°	146566
8°	135462
9°	123646
10°	111628
11°	100011
12°	89110
13°	79681
14°	71609
15°	64646
17.5°	51408
20°	40022
22.5°	29237
25°	19762
27.5°	12707
30°	8065
32.5°	5584
35°	4374
37.5°	3791
40°	3388
42.5°	3034
45°	2646
47.5°	2262
50°	1927
52.5°	1639
55°	1387
57.5°	1177
60°	960
62.5°	812
65°	636
67.5°	520
70°	414
72.5°	334
75°	255
77.5°	213
80°	147
82.5°	110
85°	63
87.5°	31



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CANDELA DISTRIBUTION (continued):

90° |  $\frac{0^\circ}{0}$

(END OF REPORT)