

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: G2-1902-155-23

Luminaire Tested: **G8-W-PC-450-5600**

Test Date: 03/08/19

**Test Information**

Test Method: LM-79-08  
Report Number: G2-1902-155-23  
Test Lab: INNOVATION CENTER(G2)  
Test Date: 03/08/19  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHESUS  
Catalog Number: G8-W-PC-450-5600  
Description: EPHESUS G8 LUMINAIRE. UNIT TESTED EPH-G8-HV-W-PC-WHT-IP. BEAM SHAPE 4.5, 5600K CCT  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

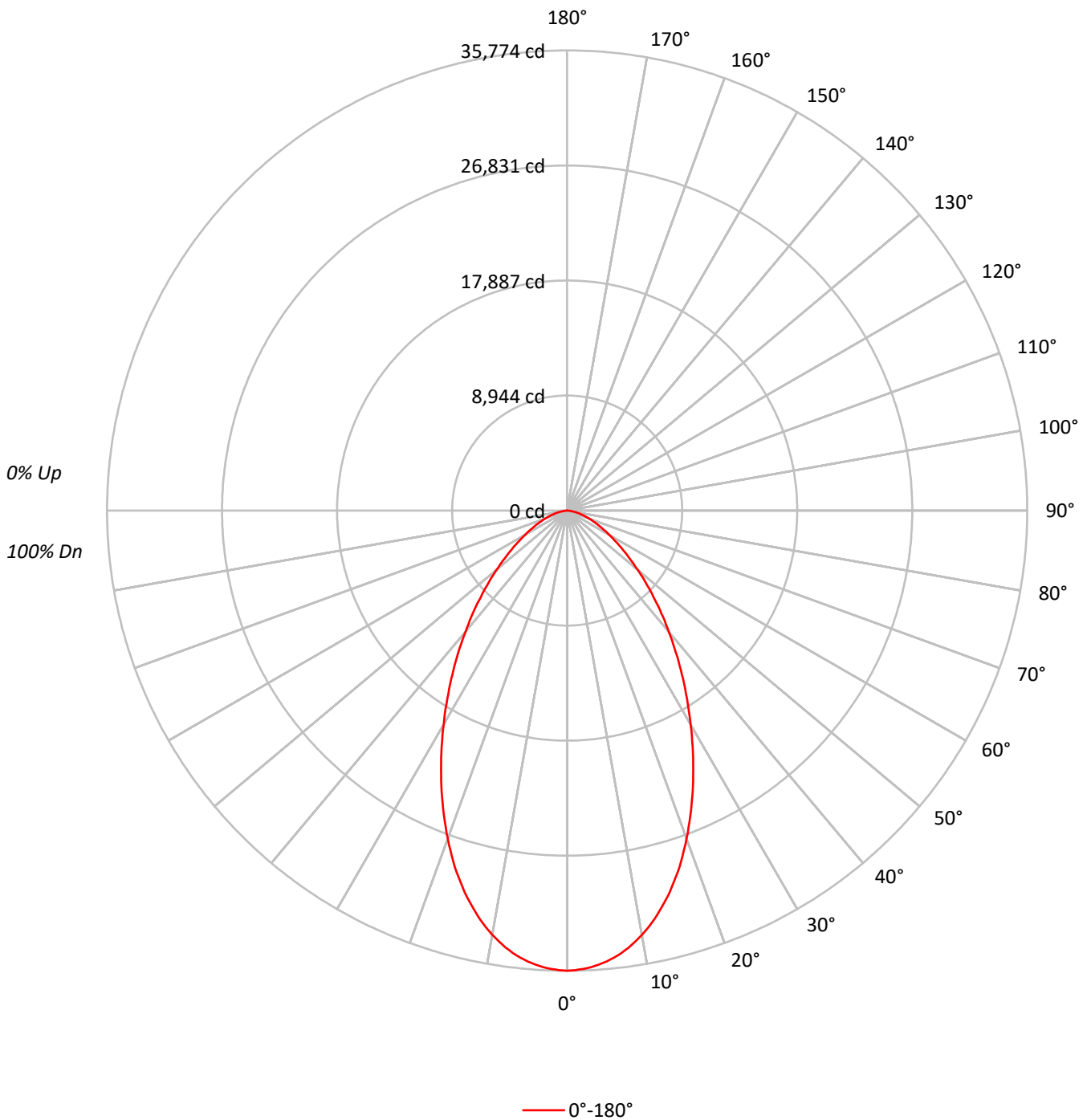
Lumens per Lamp: N/A  
Luminaire Lumens: 48479.2 lumens  
Efficiency: N/A  
Efficacy: 122.2 lumens/watt  
Spacing Criteria (0/90/45): 0.91 / 0.91 / 0.97  
Luminous Opening: Rectangular (W 0.88' x L: 1.38' x H: 0')  
CIE Type: Direct

Input Watts (W): 396.6  
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	111	108	104	102	109	106	103	100	101	99	97		98	96	94		94	93	91	89
2	104	97	92	87	101	95	90	86	92	88	84		89	86	83		86	83	81	79
3	96	88	81	76	94	87	80	76	84	79	74		81	77	73		79	75	72	70
4	90	80	73	67	88	79	72	67	77	71	66		74	69	65		72	68	65	63
5	84	73	66	60	82	72	65	60	70	64	59		68	63	59		67	62	58	56
6	79	67	60	54	77	66	59	54	65	59	54		63	58	53		62	57	53	51
7	74	62	55	50	72	61	54	49	60	54	49		59	53	49		57	52	48	47
8	69	58	50	45	68	57	50	45	56	49	45		55	49	45		54	48	45	43
9	65	54	47	42	64	53	46	42	52	46	41		51	45	41		50	45	41	40
10	62	50	43	39	61	50	43	39	49	43	38		48	42	38		47	42	38	37

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

	0°
0°	320057
5°	315972
10°	304199
15°	284777
20°	258509
25°	228713
30°	198473
35°	169900
40°	143593
45°	120072
50°	99267
55°	81952
60°	67762
65°	56438
70°	47346
75°	38853
80°	29676
85°	17553



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	3304.9	6.8
10°-20°	8578.3	17.7
20°-30°	10616.7	21.9
30°-40°	9733.6	20.1
40°-50°	7365.7	15.2
50°-60°	4753.1	9.8
60°-70°	2689.1	5.5
70°-80°	1211.0	2.5
80°-90°	227.0	0.5
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°	22499.8	46.4
0°-40°	32233.4	66.5
0°-60°	44352.2	91.5
0°-90°	48479.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	48479.2	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	35774	
5°	35183	###
15°	30746	8578
25°	23169	10617
35°	15556	9734
45°	9490	7366
55°	5254	4753
65°	2666	2689
75°	1124	1211
85°	171	227
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	35774
1°	35734
2°	35657
3°	35546
4°	35385
5°	35183
6°	34937
7°	34648
8°	34313
9°	33918
10°	33485
11°	33023
12°	32508
13°	31944
14°	31356
15°	30746
17.5°	29050
20°	27152
22.5°	25167
25°	23169
27.5°	21162
30°	19212
32.5°	17329
35°	15556
37.5°	13878
40°	12295
42.5°	10850
45°	9490
47.5°	8272
50°	7132
52.5°	6138
55°	5254
57.5°	4468
60°	3787
62.5°	3197
65°	2666
67.5°	2225
70°	1810
72.5°	1453
75°	1124
77.5°	827
80°	576
82.5°	325
85°	171
87.5°	51



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CANDELA DISTRIBUTION (continued):

90° |  $\frac{0^\circ}{0}$

(END OF REPORT)