

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: G2-1902-155-45

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

Test Date: 03/10/19

**Test Information**

Test Method: LM-79-08  
Report Number: G2-1902-155-45  
Test Lab: INNOVATION CENTER(G2)  
Test Date: 03/10/19  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHESUS  
Catalog Number: G8-W-PC-450-5000  
Description: EPHESUS G8 LUMINAIRE. UNIT TESTED EPH-G8-HV-W-PC-WHT-IP. BEAM SHAPE 4.5, 5000K CCT  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

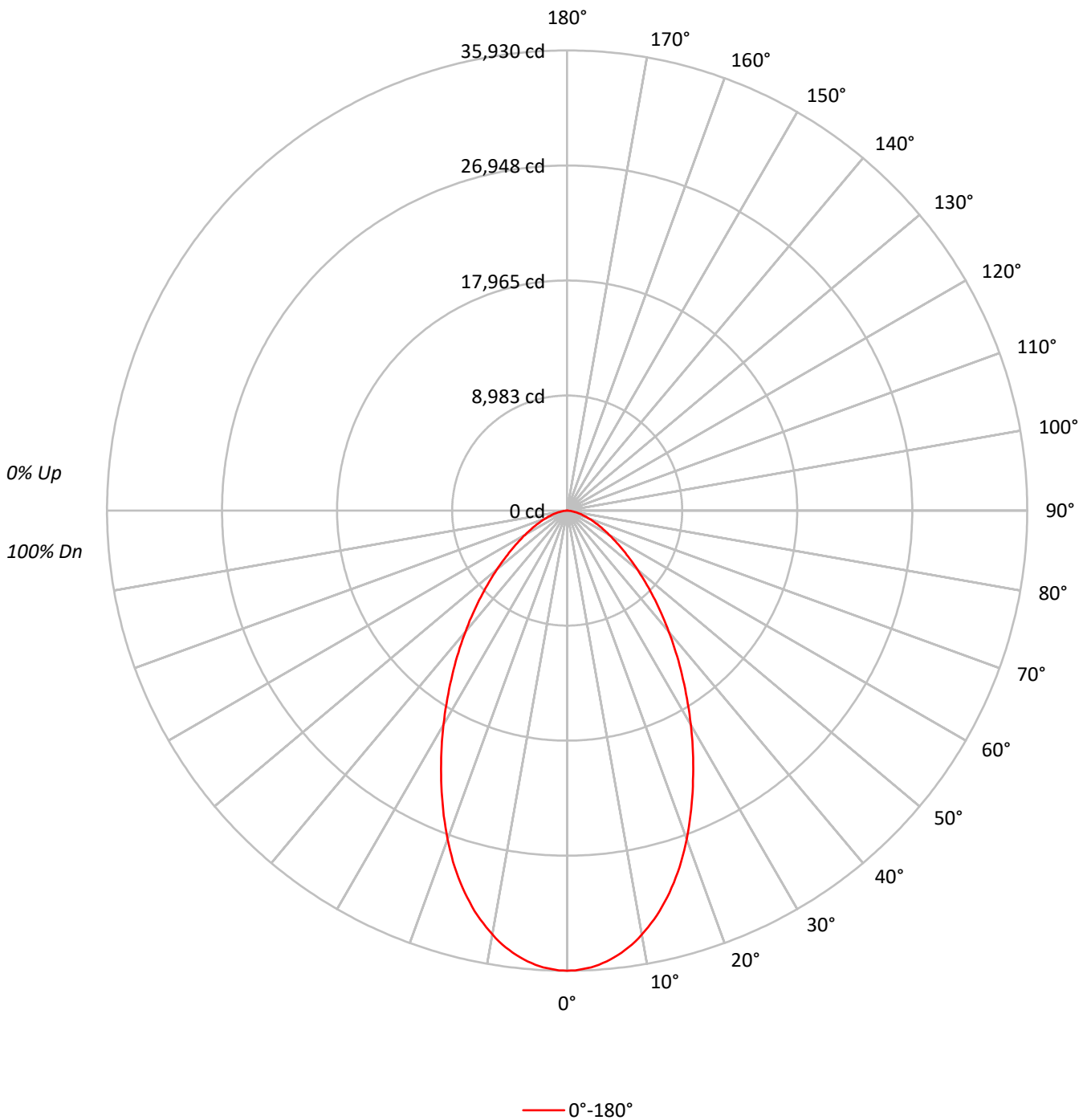
Lumens per Lamp: N/A  
Luminaire Lumens: 48658.1 lumens  
Efficiency: N/A  
Efficacy: 125.1 lumens/watt  
Spacing Criteria (0/90/45): 0.91 / 0.91 / 0.97  
Luminous Opening: Rectangular (W 0.88' x L: 1.38' x H: 0')  
CIE Type: Direct

Input Watts (W): 388.8  
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	91	86	92	88	84		89	86	83		86	83	81	79
3	96	88	82	76	94	87	81	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	57
6	79	67	60	54	77	67	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	50	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°	321452
5°	317373
10°	305308
15°	286083
20°	259908
25°	229611
30°	199434
35°	170468
40°	144306
45°	120489
50°	99531
55°	82030
60°	67959
65°	56671
70°	47320
75°	38819
80°	29264
85°	16527



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	3318.8	6.8
10°-20°	8618.4	17.7
20°-30°	10668.3	21.9
30°-40°	9775.7	20.1
40°-50°	7387.7	15.2
50°-60°	4760.5	9.8
60°-70°	2692.0	5.5
70°-80°	1209.6	2.5
80°-90°	227.3	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°	22605.5	46.5
0°-40°	32381.2	66.5
0°-60°	44529.3	91.5
0°-90°	48658.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	48658.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	35930	
5°	35339	###
15°	30887	8618
25°	23260	10668
35°	15608	9776
45°	9523	7388
55°	5259	4760
65°	2677	2692
75°	1123	1210
85°	161	227
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	35930
1°	35906
2°	35819
3°	35709
4°	35552
5°	35339
6°	35088
7°	34775
8°	34445
9°	34070
10°	33607
11°	33128
12°	32622
13°	32102
14°	31488
15°	30887
17.5°	29207
20°	27299
22.5°	25305
25°	23260
27.5°	21266
30°	19305
32.5°	17412
35°	15608
37.5°	13937
40°	12356
42.5°	10885
45°	9523
47.5°	8280
50°	7151
52.5°	6140
55°	5259
57.5°	4479
60°	3798
62.5°	3201
65°	2677
67.5°	2217
70°	1809
72.5°	1446
75°	1123
77.5°	834
80°	568
82.5°	342
85°	161
87.5°	49



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CANDELA DISTRIBUTION (continued):

90° |  $\frac{0^\circ}{0}$

(END OF REPORT)