

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: G2-1902-155-37

Luminaire Tested: **G8-W-PC-300-4500**

Test Date: 03/09/19

**Test Information**

Test Method: LM-79-08  
Report Number: G2-1902-155-37  
Test Lab: INNOVATION CENTER(G2)  
Test Date: 03/09/19  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHESUS  
Catalog Number: G8-W-PC-300-4500  
Description: EPHESUS G8 LUMINAIRE. UNIT TESTED EPH-G8-HV-W-PC-WHT-IP. BEAM SHAPE 3, 4500K CCT  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

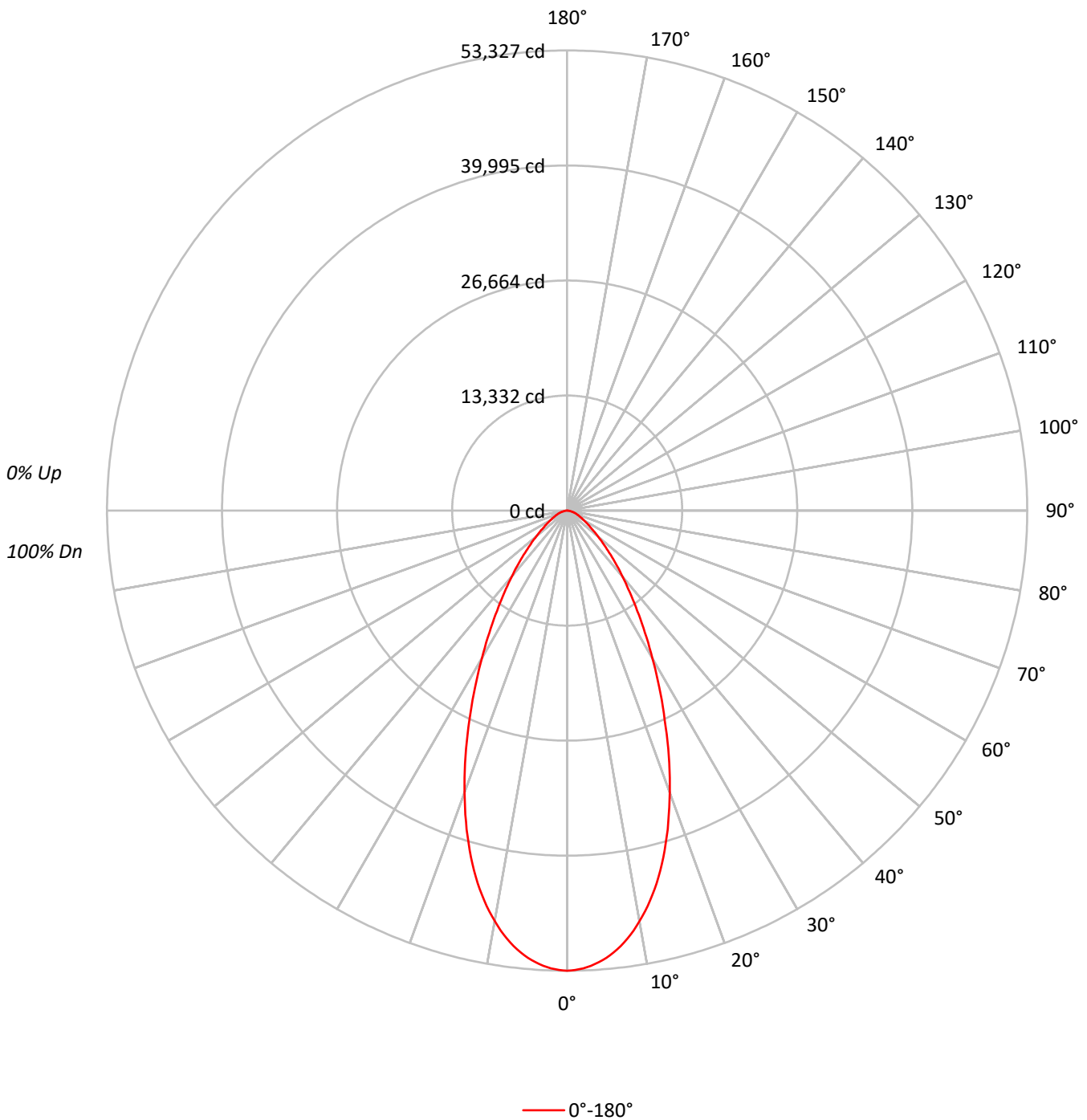
Lumens per Lamp: N/A  
Luminaire Lumens: 48702.0 lumens  
Efficiency: N/A  
Efficacy: 112.6 lumens/watt  
Spacing Criteria (0/90/45): 0.77 / 0.77 / 0.8  
Luminous Opening: Rectangular (W 0.88' x L: 1.38' x H: 0')  
CIE Type: Direct

Input Watts (W): 432.6  
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	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	85	83
3	99	92	86	82	97	90	85	81	88	83	80	85	81	78	83	80	77	75
4	94	85	79	74	92	84	78	73	81	76	72	79	75	71	77	74	71	69
5	88	79	72	67	86	78	71	67	76	70	66	74	69	66	72	68	65	63
6	83	73	67	62	82	72	66	61	71	65	61	69	64	61	68	64	60	59
7	79	68	62	57	77	68	61	57	66	61	57	65	60	56	64	59	56	54
8	75	64	58	53	73	64	57	53	62	57	53	61	56	52	60	56	52	51
9	71	60	54	49	70	60	54	49	59	53	49	58	53	49	57	52	49	47
10	67	57	51	46	66	56	50	46	56	50	46	55	50	46	54	49	46	44

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

	0°
0°	477097
5°	467397
10°	438952
15°	392941
20°	331076
25°	264290
30°	203824
35°	154697
40°	116615
45°	87239
50°	65250
55°	49555
60°	40242
65°	34041
70°	30082
75°	25407
80°	19475
85°	10060



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	4849.6	10.0
10°-20°	11732.6	24.1
20°-30°	12277.6	25.2
30°-40°	8940.5	18.4
40°-50°	5416.6	11.1
50°-60°	2933.1	6.0
60°-70°	1618.9	3.3
70°-80°	783.3	1.6
80°-90°	149.8	0.3
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°	28859.8	59.3
0°-40°	37800.3	77.6
0°-60°	46150.0	94.8
0°-90°	48702.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	48702.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	53327	
5°	52044	###
15°	42424	11733
25°	26773	12278
35°	14164	8940
45°	6895	5417
55°	3177	2933
65°	1608	1619
75°	735	783
85°	98	150
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	53327
1°	53247
2°	53084
3°	52836
4°	52480
5°	52044
6°	51492
7°	50848
8°	50107
9°	49274
10°	48318
11°	47303
12°	46218
13°	45027
14°	43756
15°	42424
17.5°	38745
20°	34774
22.5°	30754
25°	26773
27.5°	23096
30°	19730
32.5°	16774
35°	14164
37.5°	11893
40°	9985
42.5°	8344
45°	6895
47.5°	5691
50°	4688
52.5°	3866
55°	3177
57.5°	2659
60°	2249
62.5°	1885
65°	1608
67.5°	1359
70°	1150
72.5°	928
75°	735
77.5°	546
80°	378
82.5°	233
85°	98
87.5°	31



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CANDELA DISTRIBUTION (continued):

90° |  $\frac{0^\circ}{0}$

(END OF REPORT)