

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: G2-1810-991-41

Luminaire Tested: **G8-N-PC-500-4500**

Test Date: 11/02/18

**Test Information**

Test Method: LM-79-08  
Report Number: G2-1810-991-41  
Test Lab: INNOVATION CENTER(G2)  
Test Date: 11/02/18  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHESUS  
Catalog Number: G8-N-PC-500-4500  
Description: EPHESUS G8 LUMINAIRE. UNIT TESTED EPH-G8-HV-N-PC-WHT-IP. BEAM SHAPE 5, 4500K CCT  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

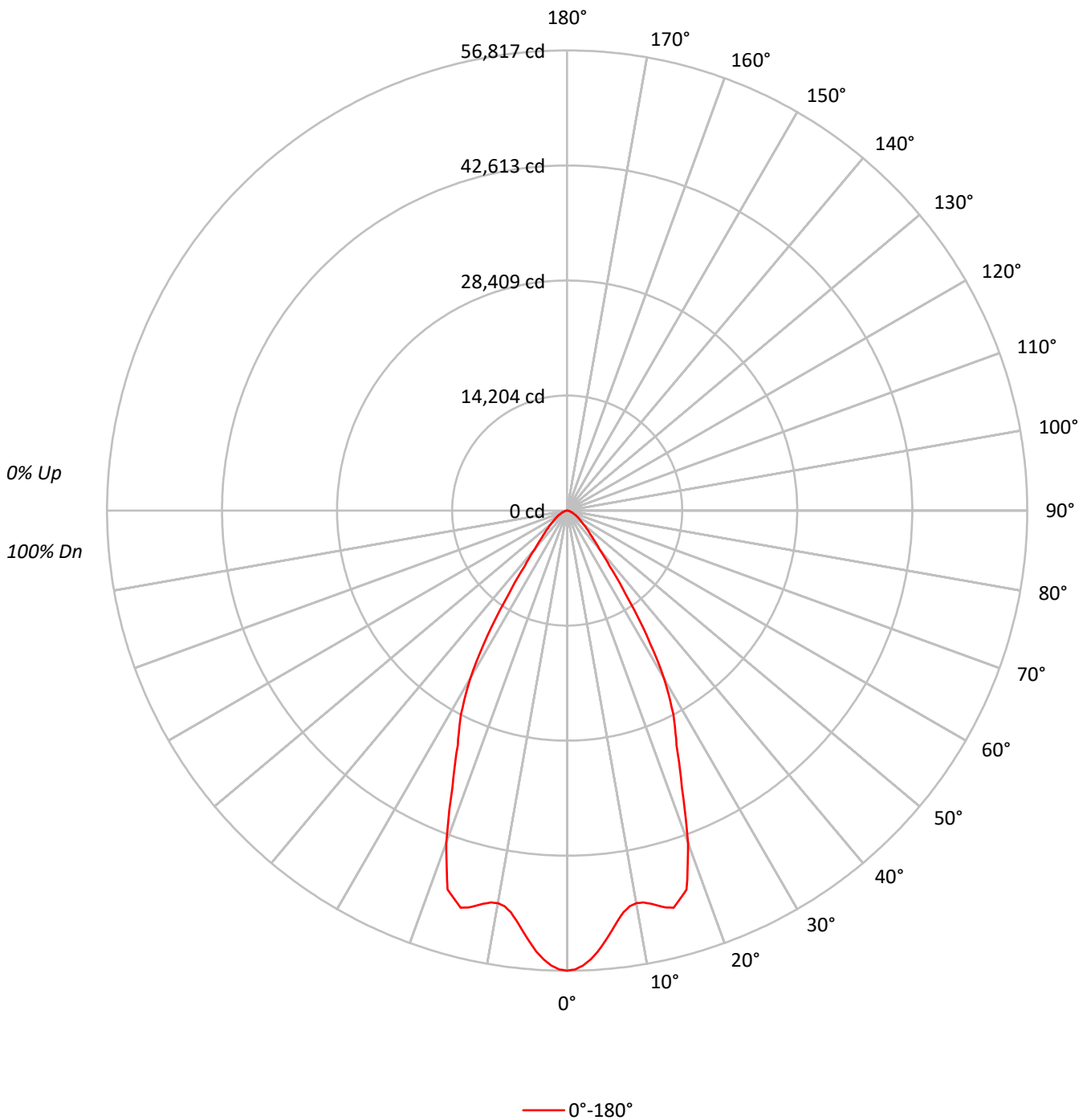
Lumens per Lamp: N/A  
Luminaire Lumens: 48204.8 lumens  
Efficiency: N/A  
Efficacy: 122.0 lumens/watt  
Spacing Criteria (0/90/45): 0.84 / 0.84 / 0.84  
Luminous Opening: Rectangular (W 1.38' x L: 0.92' x H: 0')  
CIE Type: Direct

Input Watts (W): 395.1  
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	113	110	108	105	111	108	106	103	104	102	100		100	99	97		97	96	94	93
2	107	102	98	94	105	100	96	93	97	94	91		94	91	89		91	89	87	85
3	101	95	89	85	99	93	88	85	91	87	83		88	85	82		86	83	81	79
4	96	88	82	78	94	87	82	78	85	80	77		83	79	76		81	78	75	73
5	91	82	76	72	89	81	76	72	80	75	71		78	74	70		76	73	70	68
6	86	77	71	67	85	76	71	66	75	70	66		74	69	65		72	68	65	64
7	82	73	66	62	81	72	66	62	71	65	62		69	65	61		68	64	61	59
8	78	68	62	58	77	68	62	58	67	61	58		66	61	57		65	60	57	56
9	74	65	59	54	73	64	58	54	63	58	54		62	57	54		61	57	54	52
10	71	61	55	51	70	61	55	51	60	55	51		59	54	51		58	54	51	49

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

	0°
0°	485215
5°	458179
10°	426795
15°	448780
20°	396375
25°	301181
30°	236440
35°	131923
40°	69174
45°	47524
50°	35021
55°	27545
60°	22101
65°	17338
70°	13683
75°	10922
80°	9393
85°	7153



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	4936.5	10.2
10°-20°	13838.2	28.7
20°-30°	14921.3	31.0
30°-40°	8346.7	17.3
40°-50°	3145.2	6.5
50°-60°	1686.4	3.5
60°-70°	876.3	1.8
70°-80°	366.6	0.8
80°-90°	87.7	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°	33696.0	69.9
0°-40°	42042.7	87.2
0°-60°	46874.3	97.2
0°-90°	48204.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	48204.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	56817	
5°	53447	###
15°	50760	13838
25°	31963	14921
35°	12654	8347
45°	3935	3145
55°	1850	1686
65°	858	876
75°	331	367
85°	73	88
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	56817
1°	56659
2°	56216
3°	55502
4°	54565
5°	53447
6°	52228
7°	51039
8°	50082
9°	49469
10°	49217
11°	49295
12°	49626
13°	50074
14°	50522
15°	50760
17.5°	49054
20°	43615
22.5°	36998
25°	31963
27.5°	28378
30°	23977
32.5°	18252
35°	12654
37.5°	8586
40°	6205
42.5°	4858
45°	3935
47.5°	3220
50°	2636
52.5°	2194
55°	1850
57.5°	1560
60°	1294
62.5°	1068
65°	858
67.5°	703
70°	548
72.5°	438
75°	331
77.5°	253
80°	191
82.5°	126
85°	73
87.5°	28



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CANDELA DISTRIBUTION (continued):

90° |  $\frac{0^\circ}{0}$

(END OF REPORT)