

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: G2-1902-155-31

Luminaire Tested: **G8-W-PC-500-3000**

Test Date: 03/09/19

**Test Information**

Test Method: LM-79-08  
Report Number: G2-1902-155-31  
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-500-3000  
Description: EPHESUS G8 LUMINAIRE. UNIT TESTED EPH-G8-HV-W-PC-WHT-IP. BEAM SHAPE 5, 3000K CCT  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

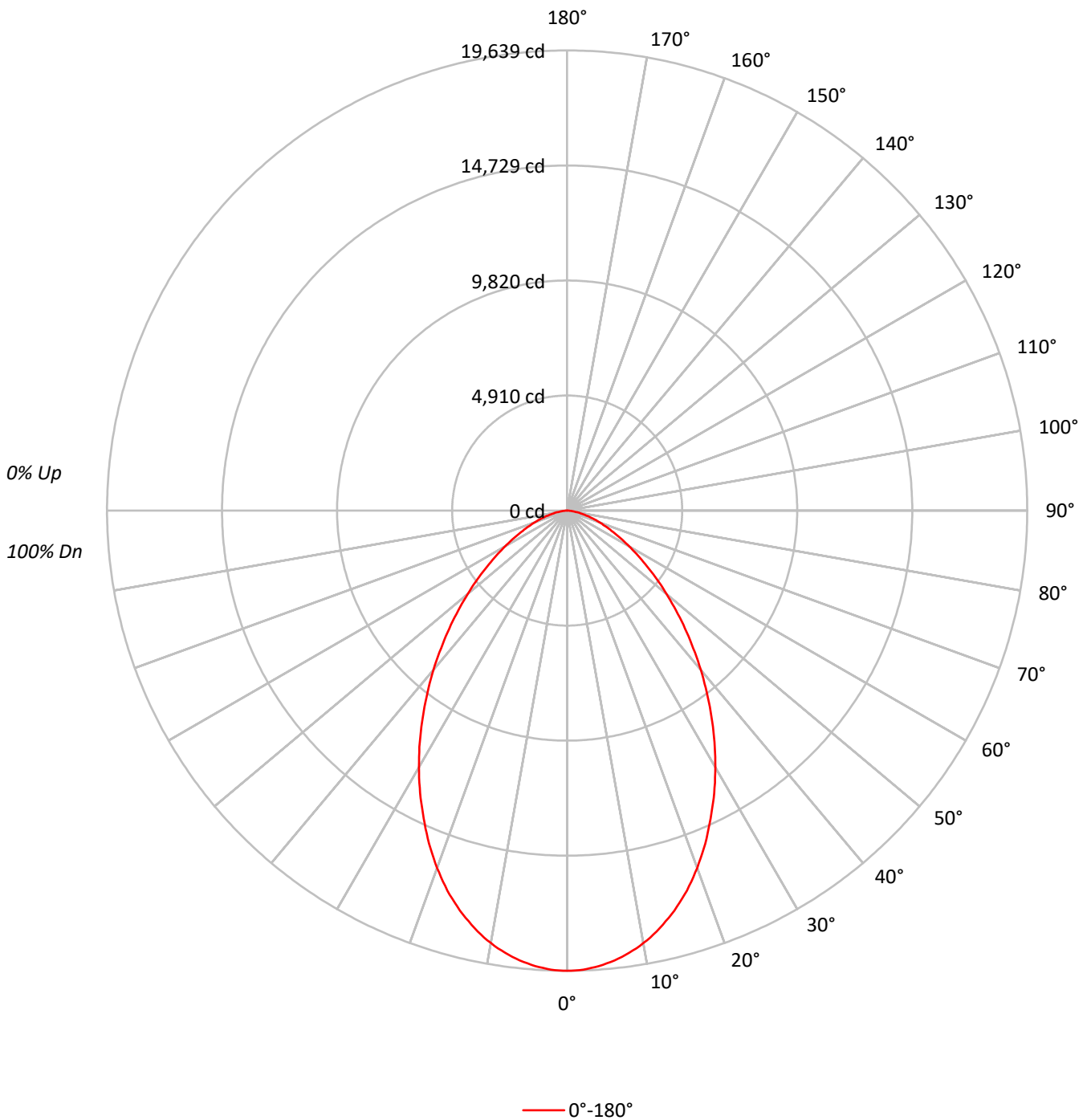
Lumens per Lamp: N/A  
Luminaire Lumens: 32751.3 lumens  
Efficiency: N/A  
Efficacy: 110.8 lumens/watt  
Spacing Criteria (0/90/45): 1.01 / 1.01 / 1.08  
Luminous Opening: Rectangular (W 0.88' x L: 1.38' x H: 0')  
CIE Type: Direct

Input Watts (W): 295.5  
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



TEST NUMBER: G2-1902-155-31  
CATALOG NUMBER: G8-W-PC-500-3000

### Luminous Intensity Polar Plot





TEST NUMBER: G2-1902-155-31

CATALOG NUMBER: G8-W-PC-500-3000

**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	107	104	101	108	105	102	99	101	98	96		97	95	93		93	92	90	88
2	103	96	90	86	100	94	89	85	91	86	83		88	84	81		85	82	79	77
3	95	86	79	74	93	85	78	73	82	76	72		79	75	71		77	73	70	68
4	88	78	70	65	86	77	70	64	74	68	63		72	67	63		70	66	62	60
5	82	71	63	57	80	70	63	57	68	61	56		66	60	56		64	59	55	53
6	77	65	57	51	75	64	56	51	62	56	51		61	55	50		59	54	50	48
7	72	60	52	46	70	59	51	46	57	51	46		56	50	46		55	49	45	43
8	67	55	47	42	66	54	47	42	53	46	42		52	46	41		51	45	41	40
9	63	51	43	38	62	50	43	38	49	43	38		48	42	38		47	42	38	36
10	59	47	40	35	58	47	40	35	46	40	35		45	39	35		44	39	35	33

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

	0°
0°	175703
5°	174219
10°	170274
15°	163691
20°	154513
25°	143048
30°	130693
35°	117235
40°	103674
45°	89997
50°	76927
55°	65059
60°	54718
65°	45642
70°	38531
75°	31387
80°	24112
85°	14576



TEST NUMBER: G2-1902-155-31

CATALOG NUMBER: G8-W-PC-500-3000

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1831.4	5.6
10°-20°	4953.9	15.1
20°-30°	6653.5	20.3
30°-40°	6706.0	20.5
40°-50°	5497.4	16.8
50°-60°	3768.0	11.5
60°-70°	2169.7	6.6
70°-80°	980.6	3.0
80°-90°	190.9	0.6
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°	13438.8	41.0
0°-40°	20144.8	61.5
0°-60°	29410.2	89.8
0°-90°	32751.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	32751.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	19639	
5°	19399	###
15°	17673	4954
25°	14491	6654
35°	10734	6706
45°	7113	5497
55°	4171	3768
65°	2156	2170
75°	908	981
85°	142	191
90°	0	



TEST NUMBER: G2-1902-155-31

CATALOG NUMBER: G8-W-PC-500-3000

**CANDELA DISTRIBUTION (FULL):**

0°	
0°	19639
1°	19632
2°	19606
3°	19546
4°	19490
5°	19399
6°	19310
7°	19189
8°	19056
9°	18917
10°	18743
11°	18571
12°	18360
13°	18140
14°	17908
15°	17673
17.5°	17005
20°	16229
22.5°	15397
25°	14491
27.5°	13591
30°	12651
32.5°	11709
35°	10734
37.5°	9789
40°	8877
42.5°	7967
45°	7113
47.5°	6295
50°	5527
52.5°	4841
55°	4171
57.5°	3590
60°	3058
62.5°	2574
65°	2156
67.5°	1788
70°	1473
72.5°	1179
75°	908
77.5°	665
80°	468
82.5°	276
85°	142
87.5°	50



TEST NUMBER: G2-1902-155-31  
CATALOG NUMBER: G8-W-PC-500-3000

CANDELA DISTRIBUTION (continued):

90° |  $\frac{0^\circ}{0}$

(END OF REPORT)