

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: G2-1810-991-15

Luminaire Tested: **G8-N-PC-320-5600**

Test Date: 10/25/18

**Test Information**

Test Method: LM-79-08  
Report Number: G2-1810-991-15  
Test Lab: INNOVATION CENTER(G2)  
Test Date: 10/25/18  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHESUS  
Catalog Number: G8-N-PC-320-5600  
Description: EPHESUS G8 LUMINAIRE. UNIT TESTED EPH-G8-HV-N-PC-WHT-IP. BEAM SHAPE 3.2, 5600K CCT  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

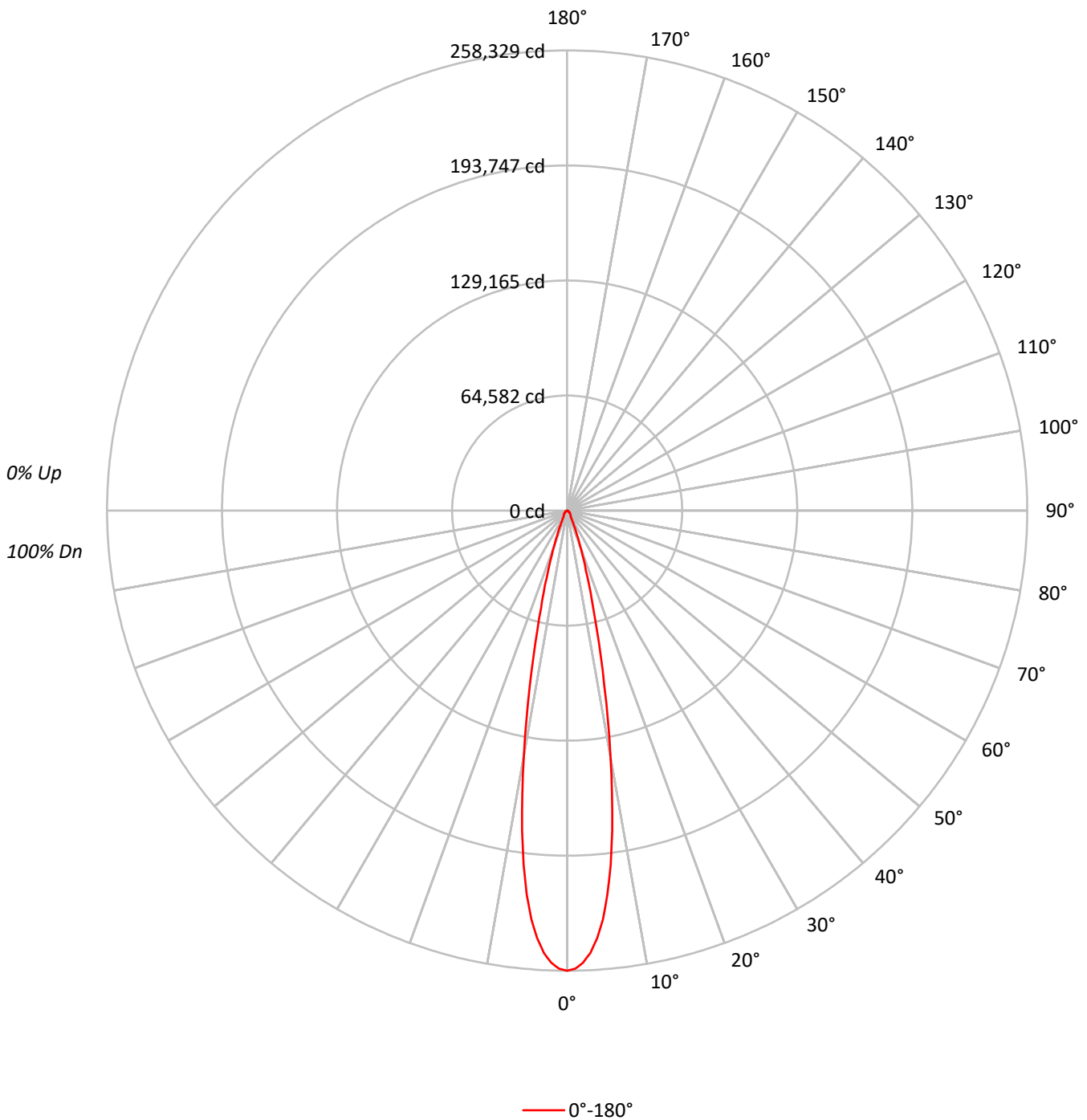
Lumens per Lamp: N/A  
Luminaire Lumens: 46072.0 lumens  
Efficiency: N/A  
Efficacy: 111.7 lumens/watt  
Spacing Criteria (0/90/45): 0.36 / 0.36 / 0.35  
Luminous Opening: Rectangular (W 1.38' x L: 0.92' x H: 0')  
CIE Type: Direct

Input Watts (W): 412.5  
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	115	112	110	109	112	110	108	107	106	105	104		103	102	100		99	98	98	96
2	111	107	103	101	108	105	102	100	102	100	98		99	97	95		96	95	93	92
3	107	102	98	95	105	100	97	94	98	95	93		96	93	91		93	92	90	89
4	103	98	93	90	102	96	93	90	94	91	89		93	90	88		91	89	87	85
5	100	94	89	86	99	93	89	86	91	88	85		90	87	84		88	86	84	83
6	97	91	86	83	96	90	86	83	89	85	82		87	84	82		86	83	81	80
7	94	88	83	80	93	87	83	80	86	82	80		85	82	79		84	81	79	78
8	92	85	81	78	91	85	81	78	84	80	77		83	80	77		82	79	77	76
9	90	83	79	76	89	82	78	76	82	78	75		81	78	75		80	77	75	74
10	87	81	76	74	87	80	76	74	80	76	74		79	76	73		78	75	73	72

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

	0°
0°	2206120
5°	1972980
10°	1214819
15°	501182
20°	196656
25°	78614
30°	42482
35°	33955
40°	32051
45°	27500
50°	21271
55°	17256
60°	14176
65°	11074
70°	8739
75°	6962
80°	5656
85°	4311



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	19020.9	41.3
10°-20°	16875.0	36.6
20°-30°	4437.9	9.6
30°-40°	2104.7	4.6
40°-50°	1739.3	3.8
50°-60°	1055.4	2.3
60°-70°	556.3	1.2
70°-80°	232.0	0.5
80°-90°	50.7	0.1
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°	40333.7	87.5
0°-40°	42438.4	92.1
0°-60°	45233.1	98.2
0°-90°	46072.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	46072.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	258329	
5°	230150	###
15°	56687	16875
25°	8343	4438
35°	3257	2105
45°	2277	1739
55°	1159	1055
65°	548	556
75°	211	232
85°	44	51
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	258329
1°	257240
2°	254063
3°	248651
4°	240759
5°	230150
6°	216667
7°	200393
8°	181436
9°	161258
10°	140090
11°	119698
12°	100594
13°	83438
14°	68878
15°	56687
17.5°	35018
20°	21639
22.5°	13286
25°	8343
27.5°	5682
30°	4308
32.5°	3605
35°	3257
37.5°	3050
40°	2875
42.5°	2626
45°	2277
47.5°	1915
50°	1601
52.5°	1363
55°	1159
57.5°	997
60°	830
62.5°	679
65°	548
67.5°	437
70°	350
72.5°	278
75°	211
77.5°	159
80°	115
82.5°	79
85°	44
87.5°	6



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CANDELA DISTRIBUTION (continued):

90° |  $\frac{0^\circ}{0}$

(END OF REPORT)