

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: G2-1810-991-44

Luminaire Tested: **G8-N-PC-400-5000**

Test Date: 11/03/18

**Test Information**

Test Method: LM-79-08  
Report Number: G2-1810-991-44  
Test Lab: INNOVATION CENTER(G2)  
Test Date: 11/03/18  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHEBUS  
Catalog Number: G8-N-PC-400-5000  
Description: EPHEBUS G8 LUMINAIRE. UNIT TESTED EPH-G8-HV-N-PC-WHT-IP. BEAM SHAPE 4, 5000K CCT  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

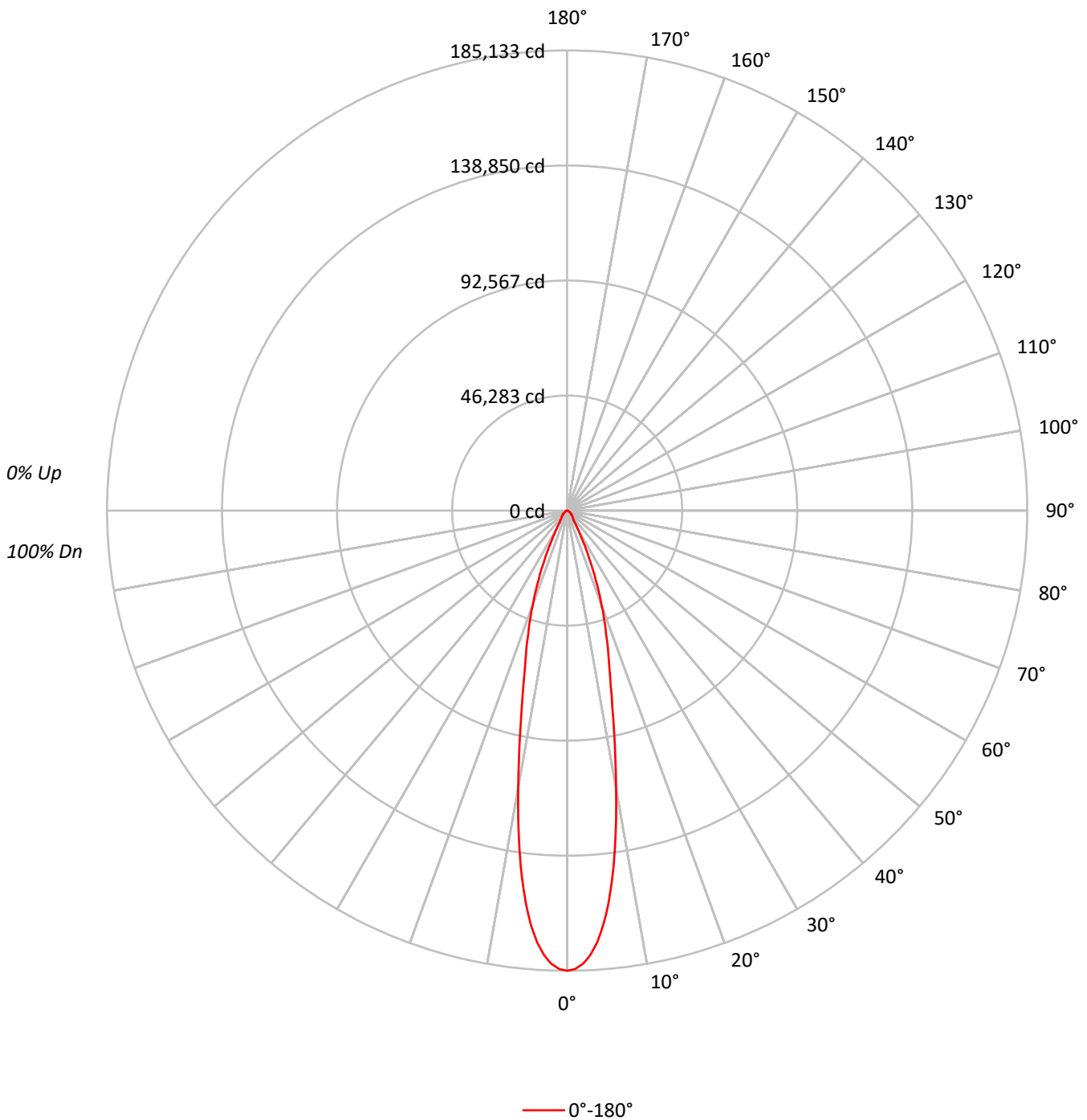
Lumens per Lamp: N/A  
Luminaire Lumens: 50148.8 lumens  
Efficiency: N/A  
Efficacy: 123.9 lumens/watt  
Spacing Criteria (0/90/45): 0.4 / 0.4 / 0.44  
Luminous Opening: Rectangular (W 1.38' x L: 0.92' x H: 0')  
CIE Type: Direct

Input Watts (W): 404.9  
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	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	114	112	109	107	112	110	108	106	106	104	103	102	101	99	98	97	97	95				95
2	109	105	102	99	107	104	100	98	100	98	95	97	95	93	95	93	92	90				90
3	105	100	95	92	103	98	94	91	96	92	90	93	91	88	91	89	87	86				86
4	101	95	90	86	99	94	89	86	91	88	85	90	86	84	88	85	83	82				82
5	97	90	85	82	96	89	85	81	88	84	81	86	83	80	85	82	79	78				78
6	94	86	81	78	92	86	81	78	84	80	77	83	79	77	82	79	76	75				75
7	90	83	78	74	89	82	78	74	81	77	74	80	76	74	79	76	73	72				72
8	87	80	75	71	86	79	75	71	78	74	71	77	74	71	76	73	71	69				69
9	85	77	72	69	84	76	72	69	76	71	68	75	71	68	74	71	68	67				67
10	82	74	70	66	81	74	69	66	73	69	66	72	69	66	72	68	66	65				65

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

	0°
0°	1581029
5°	1433842
10°	983285
15°	580709
20°	370547
25°	193507
30°	82074
35°	46987
40°	38394
45°	32379
50°	25960
55°	20904
60°	16772
65°	13155
70°	10437
75°	8876
80°	7672
85°	7447



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	14196.6	28.3
10°-20°	18762.3	37.4
20°-30°	9745.7	19.4
30°-40°	3087.3	6.2
40°-50°	2068.4	4.1
50°-60°	1268.0	2.5
60°-70°	652.8	1.3
70°-80°	290.7	0.6
80°-90°	77.0	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°	42704.6	85.2
0°-40°	45792.0	91.3
0°-60°	49128.4	98.0
0°-90°	50148.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	50148.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	185133	
5°	167259	###
15°	65682	18762
25°	20536	9746
35°	4507	3087
45°	2681	2068
55°	1404	1268
65°	651	653
75°	269	291
85°	76	77
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	185133
1°	184445
2°	182457
3°	178973
4°	174027
5°	167259
6°	159075
7°	149081
8°	137745
9°	125687
10°	113390
11°	101517
12°	90539
13°	80883
14°	72627
15°	65682
17.5°	52197
20°	40773
22.5°	29948
25°	20536
27.5°	13053
30°	8323
32.5°	5734
35°	4507
37.5°	3879
40°	3444
42.5°	3081
45°	2681
47.5°	2305
50°	1954
52.5°	1642
55°	1404
57.5°	1176
60°	982
62.5°	789
65°	651
67.5°	505
70°	418
72.5°	344
75°	269
77.5°	203
80°	156
82.5°	101
85°	76
87.5°	28



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CANDELA DISTRIBUTION (continued):

90° |  $\frac{0^\circ}{0}$

(END OF REPORT)