

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: G2-1810-991-21

Luminaire Tested: **G8-N-PC-420-5600**

Test Date: 10/26/18

Test Information

Test Method: LM-79-08
Report Number: G2-1810-991-21
Test Lab: INNOVATION CENTER(G2)
Test Date: 10/26/18
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: G8-N-PC-420-5600
Description: EPHESUS G8 LUMINAIRE. UNIT TESTED EPH-G8-HV-N-PC-WHT-IP. BEAM SHAPE 4.2, 5600K CCT
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

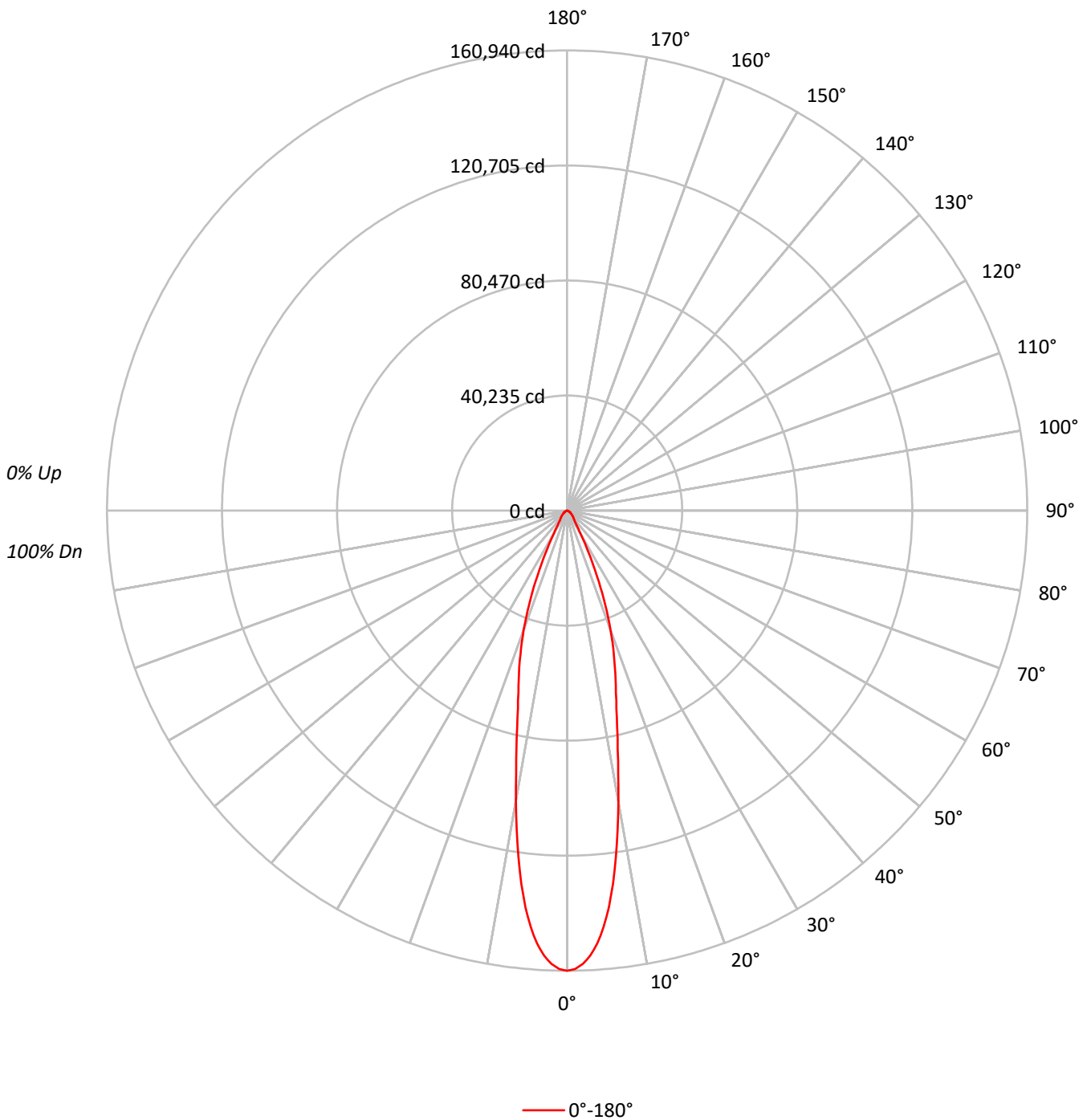
Lumens per Lamp: N/A
Luminaire Lumens: 49837.2 lumens
Efficiency: N/A
Efficacy: 119.9 lumens/watt
Spacing Criteria (0/90/45): 0.42 / 0.42 / 0.49
Luminous Opening: Rectangular (W 1.38' x L: 0.92' x H: 0')
CIE Type: Direct

Input Watts (W): 415.8
Input Voltage (V): NR
Input Current (A_{in}): 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	114	112	109	107	112	109	107	106	105	104	102		102	100	99		98	97	96	95
2	109	105	101	98	107	103	100	97	100	97	95		97	95	93		94	93	91	90
3	105	99	95	91	103	98	94	90	95	92	89		93	90	88		91	88	86	85
4	100	94	89	85	99	93	88	85	91	87	84		89	86	83		87	84	82	81
5	97	89	84	81	95	88	84	80	87	83	80		85	82	79		84	81	78	77
6	93	85	80	77	92	85	80	76	83	79	76		82	78	75		81	77	75	74
7	90	82	77	73	88	81	76	73	80	76	72		79	75	72		78	74	72	71
8	86	78	73	70	85	78	73	70	77	73	69		76	72	69		75	72	69	68
9	83	75	70	67	82	75	70	67	74	70	67		73	69	67		72	69	66	65
10	81	73	68	65	80	72	68	64	71	67	64		71	67	64		70	67	64	63

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1374422
5°	1253835
10°	893446
15°	582389
20°	403500
25°	216979
30°	92951
35°	50636
40°	39464
45°	32826
50°	26293
55°	21157
60°	16807
65°	13115
70°	10162
75°	8513
80°	7475
85°	5781



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	12536.4	25.2
10°-20°	18654.9	37.4
20°-30°	10890.2	21.9
30°-40°	3348.2	6.7
40°-50°	2101.3	4.2
50°-60°	1288.0	2.6
60°-70°	662.1	1.3
70°-80°	285.8	0.6
80°-90°	70.2	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°	42081.6	84.4
0°-40°	45429.8	91.2
0°-60°	48819.2	98.0
0°-90°	49837.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	49837.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	160940	
5°	146261	###
15°	65872	18655
25°	23027	10890
35°	4857	3348
45°	2718	2101
55°	1421	1288
65°	649	662
75°	258	286
85°	59	70
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	160940
1°	160335
2°	158648
3°	155784
4°	151671
5°	146261
6°	139526
7°	131505
8°	122480
9°	112806
10°	103030
11°	93642
12°	85131
13°	77697
14°	71273
15°	65872
17.5°	54977
20°	44399
22.5°	33475
25°	23027
27.5°	14896
30°	9426
32.5°	6370
35°	4857
37.5°	4032
40°	3540
42.5°	3120
45°	2718
47.5°	2341
50°	1979
52.5°	1684
55°	1421
57.5°	1194
60°	984
62.5°	810
65°	649
67.5°	528
70°	407
72.5°	345
75°	258
77.5°	202
80°	152
82.5°	104
85°	59
87.5°	19



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CANDELA DISTRIBUTION (continued):

90° | $\frac{0^\circ}{0}$

(END OF REPORT)