

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: G2-1810-991-20

Luminaire Tested: **G8-N-PC-400-5600**

Test Date: 10/25/18

Test Information

Test Method: LM-79-08
Report Number: G2-1810-991-20
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-400-5600
Description: EPHESUS G8 LUMINAIRE. UNIT TESTED EPH-G8-HV-N-PC-WHT-IP. BEAM SHAPE 4, 5600K CCT
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

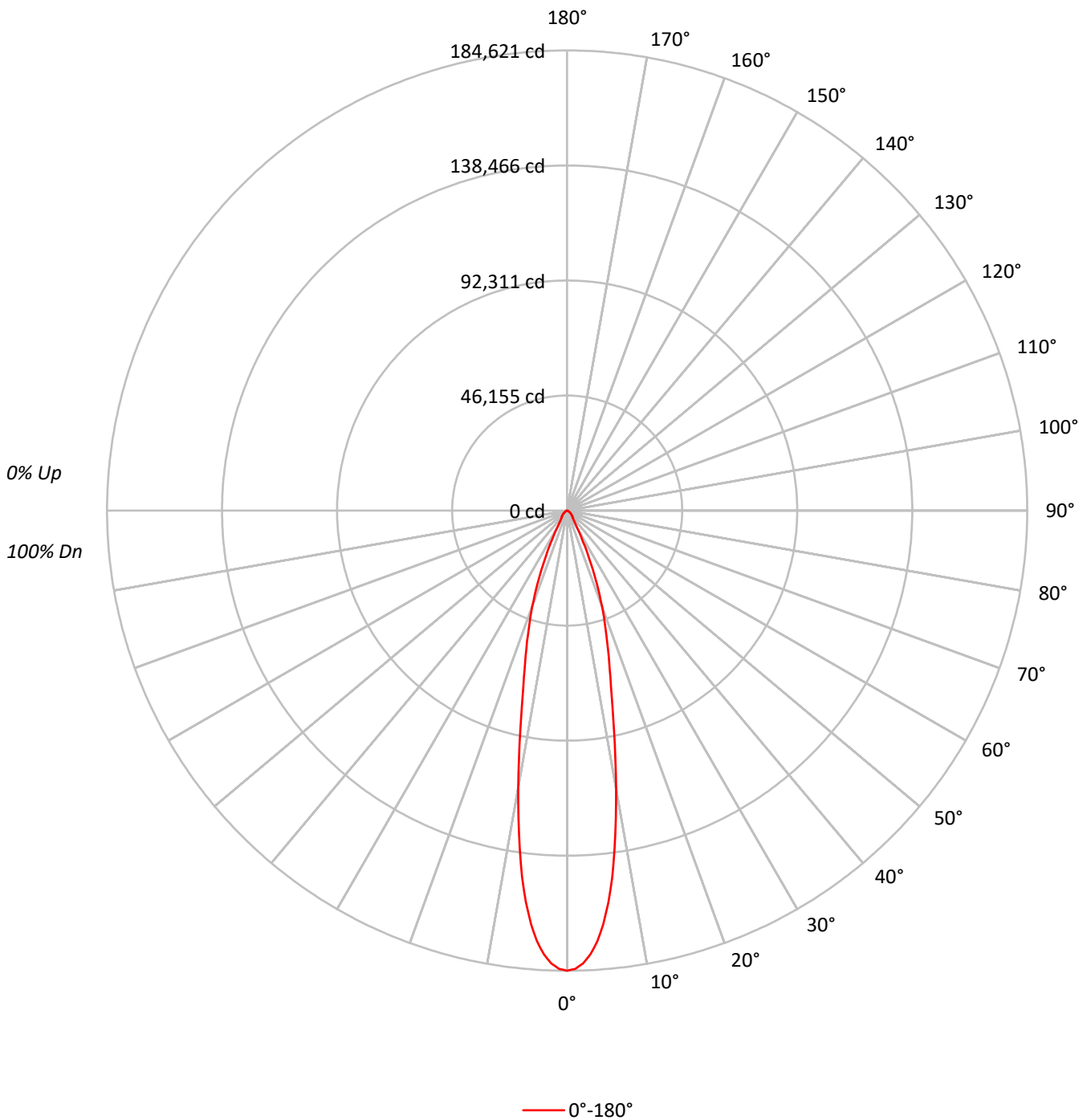
Lumens per Lamp: N/A
Luminaire Lumens: 49819.8 lumens
Efficiency: N/A
Efficacy: 119.7 lumens/watt
Spacing Criteria (0/90/45): 0.4 / 0.4 / 0.44
Luminous Opening: Rectangular (W 1.38' x L: 0.92' x H: 0')
CIE Type: Direct

Input Watts (W): 416.3
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	110	108	112	110	108	106	106	104	103		102	101	100		98	98	97	95
2	110	105	102	99	107	104	100	98	100	98	96		97	95	94		95	93	92	90
3	105	100	95	92	103	98	94	91	96	92	90		93	91	88		91	89	87	86
4	101	95	90	86	99	94	89	86	92	88	85		90	87	84		88	85	83	82
5	97	90	85	82	96	89	85	82	88	84	81		86	83	80		85	82	79	78
6	94	86	82	78	93	86	81	78	84	80	77		83	79	77		82	79	76	75
7	91	83	78	75	89	82	78	74	81	77	74		80	76	74		79	76	73	72
8	88	80	75	72	86	79	75	71	78	74	71		77	74	71		77	73	71	70
9	85	77	72	69	84	76	72	69	76	72	69		75	71	68		74	71	68	67
10	82	74	70	67	81	74	69	66	73	69	66		73	69	66		72	68	66	65

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1576656
5°	1427884
10°	978593
15°	581142
20°	370001
25°	190124
30°	80427
35°	45861
40°	37770
45°	31969
50°	25522
55°	20547
60°	16568
65°	12791
70°	9888
75°	8216
80°	6787
85°	5193



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	14122.7	28.3
10°-20°	18760.5	37.7
20°-30°	9649.1	19.4
30°-40°	3020.7	6.1
40°-50°	2038.5	4.1
50°-60°	1253.2	2.5
60°-70°	644.1	1.3
70°-80°	271.4	0.5
80°-90°	59.5	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°	42532.3	85.4
0°-40°	45553.0	91.4
0°-60°	48844.7	98.0
0°-90°	49819.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	49819.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	184621	
5°	166564	###
15°	65731	18761
25°	20177	9649
35°	4399	3021
45°	2647	2038
55°	1380	1253
65°	633	644
75°	249	271
85°	53	60
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	184621
1°	183888
2°	181810
3°	178284
4°	173236
5°	166564
6°	158112
7°	148157
8°	136903
9°	124966
10°	112849
11°	101350
12°	90363
13°	80899
14°	72689
15°	65731
17.5°	52309
20°	40713
22.5°	29806
25°	20177
27.5°	12846
30°	8156
32.5°	5613
35°	4399
37.5°	3788
40°	3388
42.5°	3041
45°	2647
47.5°	2268
50°	1921
52.5°	1630
55°	1380
57.5°	1168
60°	970
62.5°	784
65°	633
67.5°	510
70°	396
72.5°	317
75°	249
77.5°	197
80°	138
82.5°	84
85°	53
87.5°	13



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CANDELA DISTRIBUTION (continued):

90° | $\frac{0^\circ}{0}$

(END OF REPORT)