

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: G2-1810-991-54

Luminaire Tested: **G8-N-PC-400-6500**

Test Date: 11/06/18

Test Information

Test Method: LM-79-08
Report Number: G2-1810-991-54
Test Lab: INNOVATION CENTER(G2)
Test Date: 11/06/18
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: G8-N-PC-400-6500
Description: EPHESUS G8 LUMINAIRE. UNIT TESTED EPH-G8-HV-N-PC-WHT-IP. BEAM SHAPE 4, 6500K CCT
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

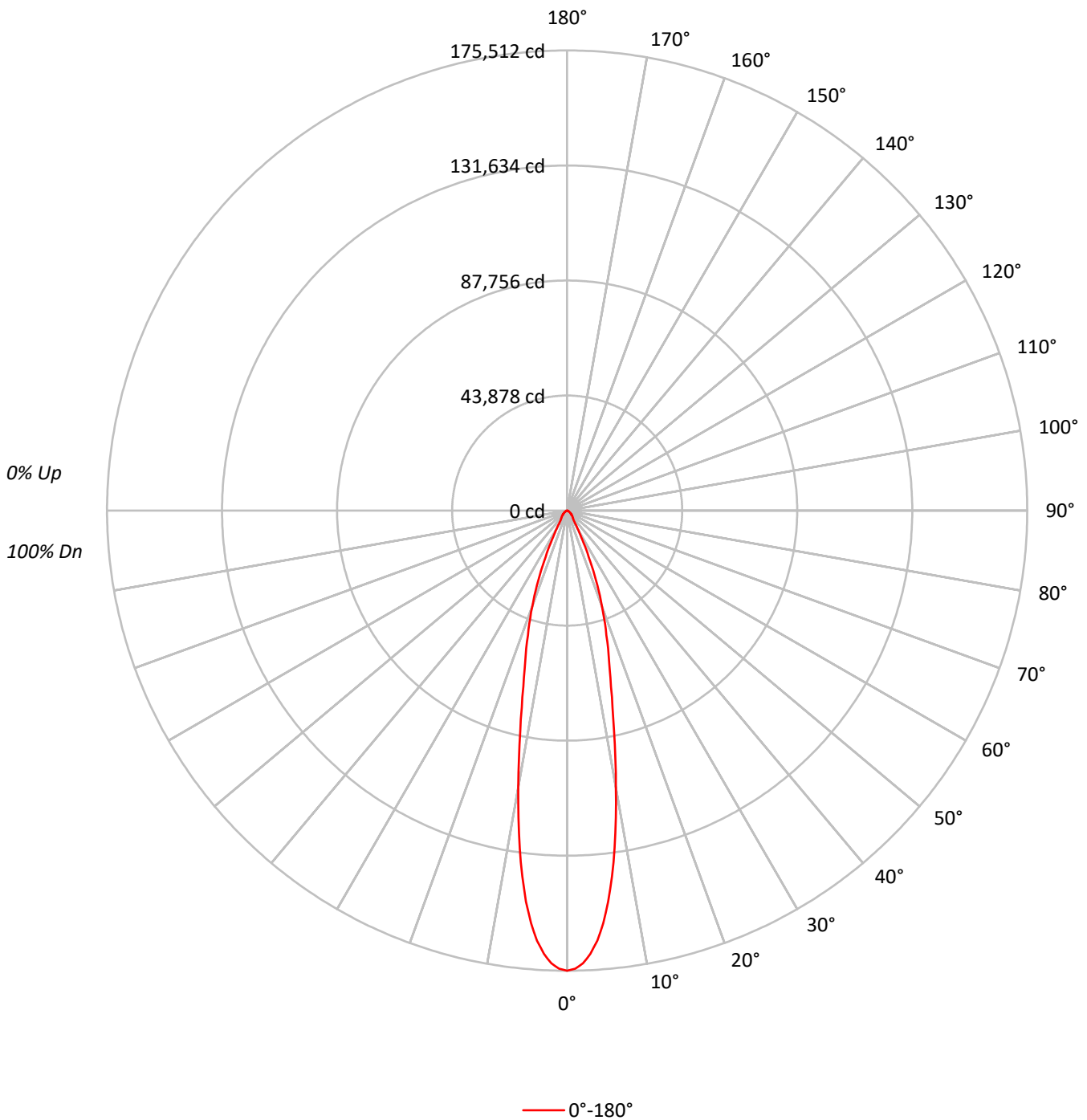
Lumens per Lamp: N/A
Luminaire Lumens: 47586.6 lumens
Efficiency: N/A
Efficacy: 113.1 lumens/watt
Spacing Criteria (0/90/45): 0.4 / 0.4 / 0.44
Luminous Opening: Rectangular (W 1.38' x L: 0.92' x H: 0')
CIE Type: Direct

Input Watts (W): 420.9
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			
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100
1	114	112	109	107	112	110	108	106	106	104	103	102	101	99	98	98	97	95	95	95
2	109	105	102	99	107	104	100	98	100	98	95	97	95	93	95	93	92	90	90	90
3	105	100	95	92	103	98	94	91	96	92	90	93	91	88	91	89	87	86	86	86
4	101	95	90	86	99	94	89	86	91	88	85	90	86	84	88	85	83	82	82	82
5	97	90	85	82	96	89	85	81	88	84	81	86	83	80	85	82	79	78	78	78
6	94	86	81	78	92	86	81	78	84	80	77	83	79	77	82	79	76	75	75	75
7	90	83	78	74	89	82	78	74	81	77	74	80	76	74	79	76	73	72	72	72
8	87	80	75	71	86	79	75	71	78	74	71	77	73	71	76	73	70	69	69	69
9	85	77	72	69	84	76	72	69	75	71	68	75	71	68	74	71	68	67	67	67
10	82	74	69	66	81	74	69	66	73	69	66	72	69	66	72	68	66	65	65	65

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1498866
5°	1354383
10°	929936
15°	553690
20°	353779
25°	182944
30°	77696
35°	44162
40°	36321
45°	30785
50°	24658
55°	19996
60°	16123
65°	12468
70°	9813
75°	8018
80°	6295
85°	5977



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	13408.4	28.2
10°-20°	17860.6	37.5
20°-30°	9262.7	19.5
30°-40°	2910.5	6.1
40°-50°	1964.0	4.1
50°-60°	1219.0	2.6
60°-70°	627.5	1.3
70°-80°	266.0	0.6
80°-90°	68.0	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°	40531.7	85.2
0°-40°	43442.2	91.3
0°-60°	46625.2	98.0
0°-90°	47586.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	47586.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	175512	
5°	157990	###
15°	62626	17861
25°	19415	9263
35°	4236	2910
45°	2549	1964
55°	1343	1219
65°	617	627
75°	243	266
85°	61	68
90°	0	



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CANDELA DISTRIBUTION (FULL):

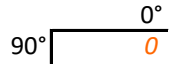
0°	
0°	175512
1°	174801
2°	172762
3°	169301
4°	164422
5°	157990
6°	150000
7°	140582
8°	130052
9°	118702
10°	107238
11°	96134
12°	85919
13°	77040
14°	69217
15°	62626
17.5°	49812
20°	38928
22.5°	28564
25°	19415
27.5°	12365
30°	7879
32.5°	5401
35°	4236
37.5°	3653
40°	3258
42.5°	2925
45°	2549
47.5°	2191
50°	1856
52.5°	1578
55°	1343
57.5°	1148
60°	944
62.5°	763
65°	617
67.5°	494
70°	393
72.5°	319
75°	243
77.5°	187
80°	128
82.5°	94
85°	61
87.5°	31



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CANDELA DISTRIBUTION (continued):



(END OF REPORT)