

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: G2-1902-155-8

Luminaire Tested: **G8-W-PC-420-4000**

Test Date: 03/06/19

Test Information

Test Method: LM-79-08
Report Number: G2-1902-155-8
Test Lab: INNOVATION CENTER(G2)
Test Date: 03/06/19
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: G8-W-PC-420-4000
Description: EPHESUS G8 LUMINAIRE. UNIT TESTED EPH-G8-HV-W-PC-WHT-IP. BEAM SHAPE 4.2, 4000K CCT
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

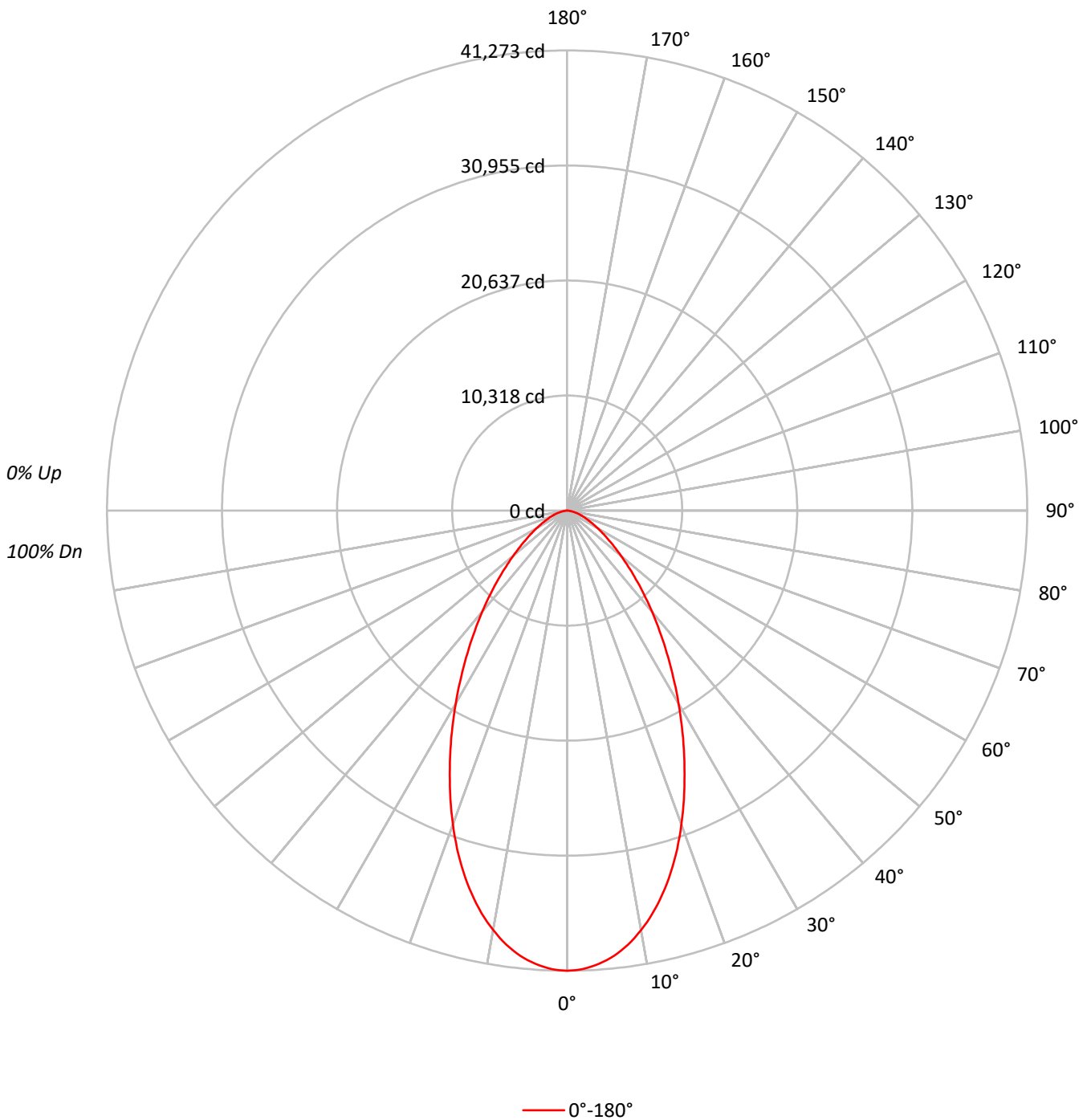
Lumens per Lamp: N/A
Luminaire Lumens: 48821.4 lumens
Efficiency: N/A
Efficacy: 120.2 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.91
Luminous Opening: Rectangular (W 0.88' x L: 1.38' x H: 0')
CIE Type: Direct

Input Watts (W): 406.1
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	112	108	105	102	109	106	103	101	102	100	98		98	96	95		95	93	92	90
2	104	98	93	89	102	97	92	88	93	89	86		90	87	84		87	85	82	80
3	98	90	83	78	95	88	82	78	85	80	76		83	79	75		80	77	74	72
4	91	82	75	70	89	81	74	69	78	73	69		76	72	68		74	70	67	65
5	86	75	68	63	84	74	68	63	72	66	62		71	65	61		69	64	61	59
6	80	70	62	57	79	69	62	57	67	61	56		66	60	56		64	59	56	54
7	76	64	57	52	74	64	57	52	62	56	52		61	56	51		60	55	51	49
8	71	60	53	48	70	59	53	48	58	52	48		57	52	47		56	51	47	46
9	67	56	49	44	66	56	49	44	54	48	44		53	48	44		53	48	44	42
10	64	53	46	41	63	52	46	41	51	45	41		50	45	41		50	44	41	39

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	369254
5°	363597
10°	347143
15°	320668
20°	285329
25°	245564
30°	206603
35°	170129
40°	138186
45°	110494
50°	87603
55°	69473
60°	56256
65°	45959
70°	38243
75°	31525
80°	23958
85°	12831



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3792.4	7.8
10°-20°	9636.2	19.7
20°-30°	11399.5	23.3
30°-40°	9765.5	20.0
40°-50°	6803.5	13.9
50°-60°	4066.0	8.3
60°-70°	2196.0	4.5
70°-80°	981.2	2.0
80°-90°	181.2	0.4
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°	24828.0	50.9
0°-40°	34593.6	70.9
0°-60°	45463.0	93.1
0°-90°	48821.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	48821.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	41273	
5°	40486	###
15°	34621	9636
25°	24876	11399
35°	15577	9766
45°	8733	6803
55°	4454	4066
65°	2171	2196
75°	912	981
85°	125	181
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	41273
1°	41232
2°	41138
3°	40970
4°	40755
5°	40486
6°	40156
7°	39757
8°	39313
9°	38775
10°	38212
11°	37574
12°	36911
13°	36184
14°	35419
15°	34621
17.5°	32408
20°	29969
22.5°	27424
25°	24876
27.5°	22399
30°	19999
32.5°	17710
35°	15577
37.5°	13616
40°	11832
42.5°	10216
45°	8733
47.5°	7431
50°	6294
52.5°	5308
55°	4454
57.5°	3767
60°	3144
62.5°	2627
65°	2171
67.5°	1791
70°	1462
72.5°	1169
75°	912
77.5°	680
80°	465
82.5°	275
85°	125
87.5°	34



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CANDELA DISTRIBUTION (continued):

90° | $\frac{0^\circ}{0}$

(END OF REPORT)