

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: G2-1902-155-21

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

Test Date: 03/08/19

Test Information

Test Method: LM-79-08
Report Number: G2-1902-155-21
Test Lab: INNOVATION CENTER(G2)
Test Date: 03/08/19
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: G8-W-PC-420-5600
Description: EPHESUS G8 LUMINAIRE. UNIT TESTED EPH-G8-HV-W-PC-WHT-IP. BEAM SHAPE 4.2, 5600K CCT
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

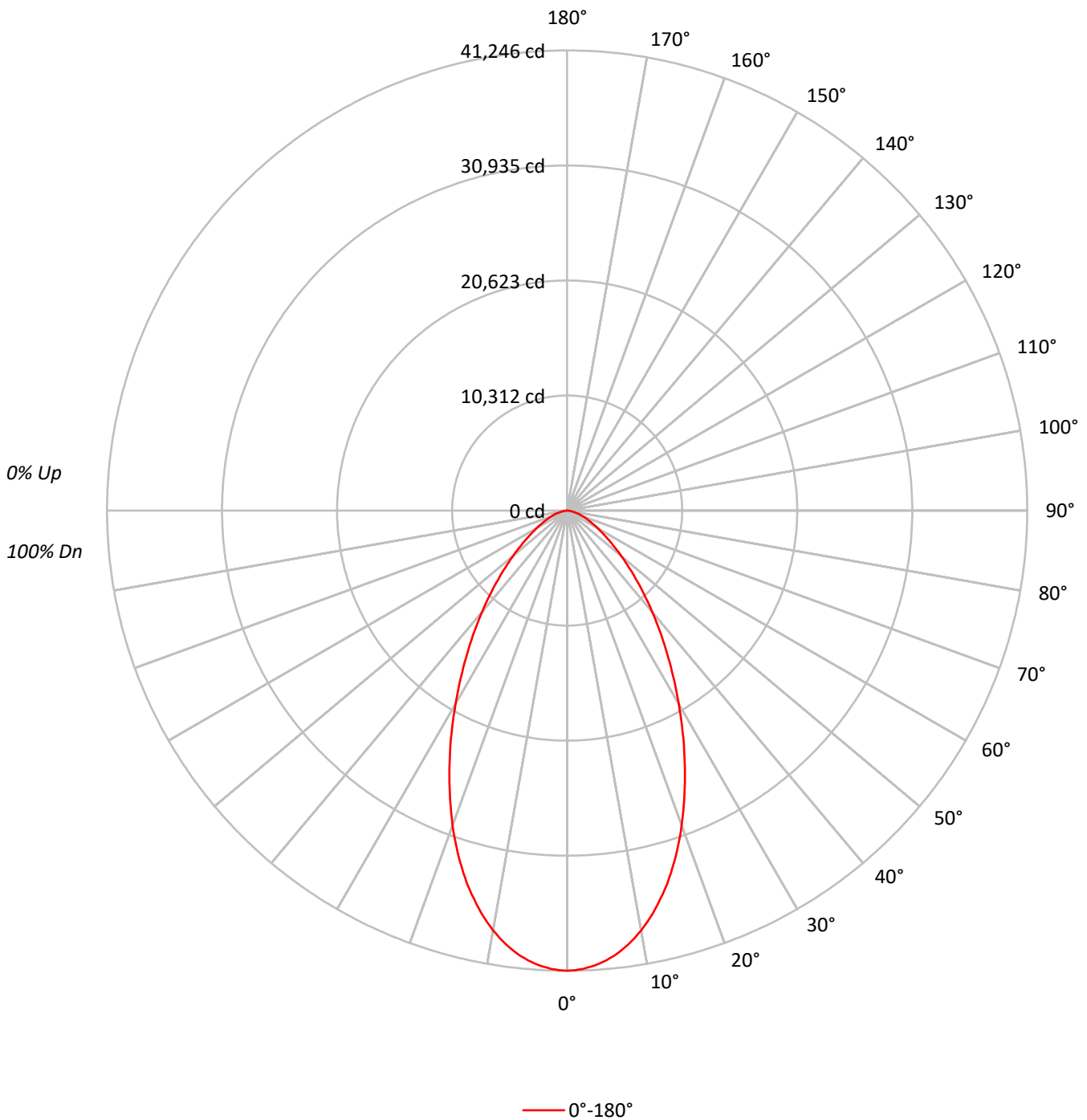
Lumens per Lamp: N/A
Luminaire Lumens: 48939.2 lumens
Efficiency: N/A
Efficacy: 117.8 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.91
Luminous Opening: Rectangular (W 0.88' x L: 1.38' x H: 0')
CIE Type: Direct

Input Watts (W): 415.4
Input Voltage (V): NR
Input Current (Ain): 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	96	92	88	93	89	86		90	87	84		87	85	82	80
3	98	89	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	68		76	71	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	69	62	57	79	69	62	57	67	61	56		65	60	56		64	59	56	54
7	76	64	57	52	74	64	57	52	62	56	52		61	55	51		60	55	51	49
8	71	60	53	48	70	59	53	48	58	52	48		57	51	47		56	51	47	46
9	67	56	49	44	66	55	49	44	54	48	44		53	48	44		53	47	44	42
10	64	52	46	41	63	52	46	41	51	45	41		50	45	41		49	44	41	39

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	369013
5°	363318
10°	347097
15°	320844
20°	285891
25°	246136
30°	206521
35°	170293
40°	138384
45°	110797
50°	88132
55°	69910
60°	56435
65°	46298
70°	38766
75°	32113
80°	24679
85°	15603



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3790.1	7.7
10°-20°	9642.2	19.7
20°-30°	11419.2	23.3
30°-40°	9777.7	20.0
40°-50°	6824.6	13.9
50°-60°	4077.5	8.3
60°-70°	2213.9	4.5
70°-80°	992.2	2.0
80°-90°	201.9	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°	24851.5	50.8
0°-40°	34629.2	70.8
0°-60°	45531.3	93.0
0°-90°	48939.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	48939.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	41246	
5°	40455	###
15°	34640	9642
25°	24934	11419
35°	15592	9778
45°	8757	6825
55°	4482	4077
65°	2187	2214
75°	929	992
85°	152	202
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	41246
1°	41203
2°	41106
3°	40929
4°	40727
5°	40455
6°	40127
7°	39724
8°	39285
9°	38769
10°	38207
11°	37578
12°	36919
13°	36178
14°	35417
15°	34640
17.5°	32437
20°	30028
22.5°	27478
25°	24934
27.5°	22438
30°	19991
32.5°	17712
35°	15592
37.5°	13668
40°	11849
42.5°	10246
45°	8757
47.5°	7458
50°	6332
52.5°	5329
55°	4482
57.5°	3747
60°	3154
62.5°	2647
65°	2187
67.5°	1812
70°	1482
72.5°	1184
75°	929
77.5°	673
80°	479
82.5°	299
85°	152
87.5°	52



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CANDELA DISTRIBUTION (continued):

90° | $\frac{0^\circ}{0}$

(END OF REPORT)