

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: G2-1902-155-39

Luminaire Tested: **G8-W-PC-400-4500**

Test Date: 03/09/19

Test Information

Test Method: LM-79-08
Report Number: G2-1902-155-39
Test Lab: INNOVATION CENTER(G2)
Test Date: 03/09/19
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: G8-W-PC-400-4500
Description: EPHESUS G8 LUMINAIRE. UNIT TESTED EPH-G8-HV-W-PC-WHT-IP. BEAM SHAPE 4, 4500K CCT
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

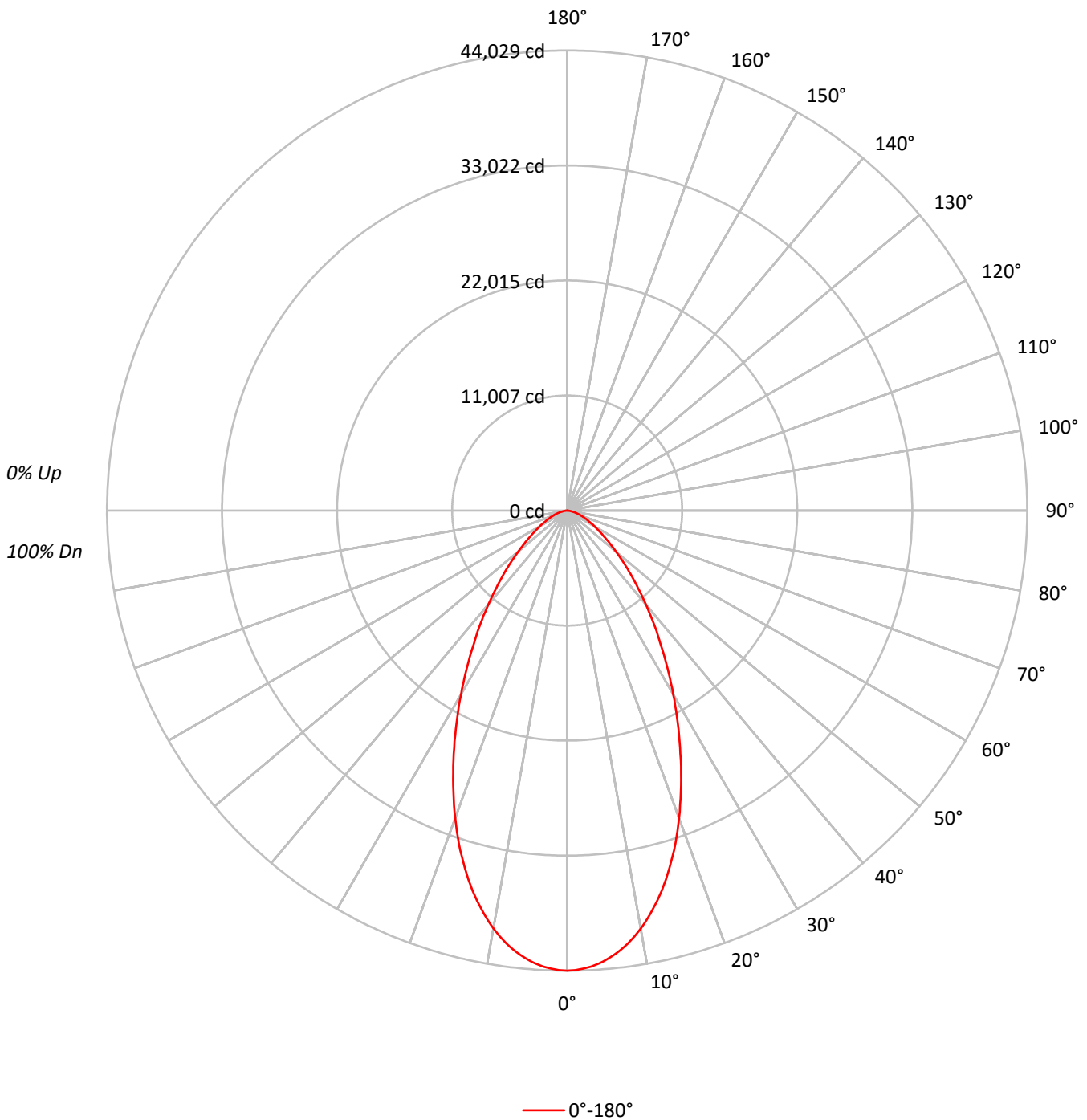
Lumens per Lamp: N/A
Luminaire Lumens: 49589.4 lumens
Efficiency: N/A
Efficacy: 123.4 lumens/watt
Spacing Criteria (0/90/45): 0.84 / 0.84 / 0.89
Luminous Opening: Rectangular (W 0.88' x L: 1.38' x H: 0')
CIE Type: Direct

Input Watts (W): 401.9
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	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	103	109	106	103	101	102	100	98	98	97	95	95	93	92	90
2	105	99	94	89	102	97	92	88	93	90	86	90	87	84	88	85	83	81
3	98	90	84	79	96	89	83	78	86	81	77	83	79	76	81	77	75	73
4	92	82	76	71	90	81	75	70	79	74	69	77	72	68	75	71	68	66
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	70	65	62	60
6	81	70	63	58	79	69	63	58	68	62	57	66	61	57	65	60	56	55
7	76	65	58	53	75	64	58	53	63	57	53	62	56	52	61	56	52	50
8	72	61	54	49	70	60	53	49	59	53	49	58	52	48	57	52	48	47
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43
10	64	53	47	42	63	53	46	42	52	46	42	51	46	42	50	45	42	40

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	393911
5°	387441
10°	369037
15°	338498
20°	298144
25°	253224
30°	209702
35°	170359
40°	136714
45°	108444
50°	84945
55°	66884
60°	53859
65°	44456
70°	37223
75°	30557
80°	22618
85°	12831



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4038.0	8.1
10°-20°	10161.9	20.5
20°-30°	11754.0	23.7
30°-40°	9797.9	19.8
40°-50°	6671.6	13.5
50°-60°	3915.4	7.9
60°-70°	2117.6	4.3
70°-80°	955.2	1.9
80°-90°	177.9	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°	25953.9	52.3
0°-40°	35751.7	72.1
0°-60°	46338.7	93.4
0°-90°	49589.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	49589.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	44029	
5°	43141	###
15°	36546	10162
25°	25652	11754
35°	15598	9798
45°	8571	6672
55°	4288	3915
65°	2100	2118
75°	884	955
85°	125	178
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	44029
1°	43976
2°	43867
3°	43702
4°	43452
5°	43141
6°	42768
7°	42332
8°	41827
9°	41244
10°	40622
11°	39907
12°	39132
13°	38319
14°	37463
15°	36546
17.5°	34055
20°	31315
22.5°	28490
25°	25652
27.5°	22922
30°	20299
32.5°	17872
35°	15598
37.5°	13584
40°	11706
42.5°	10040
45°	8571
47.5°	7249
50°	6103
52.5°	5127
55°	4288
57.5°	3603
60°	3010
62.5°	2519
65°	2100
67.5°	1738
70°	1423
72.5°	1148
75°	884
77.5°	663
80°	439
82.5°	270
85°	125
87.5°	40



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CANDELA DISTRIBUTION (continued):

90° | $\frac{0^\circ}{0}$

(END OF REPORT)