

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: G2-1902-155-10

Luminaire Tested: **G8-W-PC-450-4000**

Test Date: 03/06/19

Test Information

Test Method: LM-79-08
Report Number: G2-1902-155-10
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-450-4000
Description: EPHESUS G8 LUMINAIRE. UNIT TESTED EPH-G8-HV-W-PC-WHT-IP. BEAM SHAPE 4.5, 4000K CCT
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

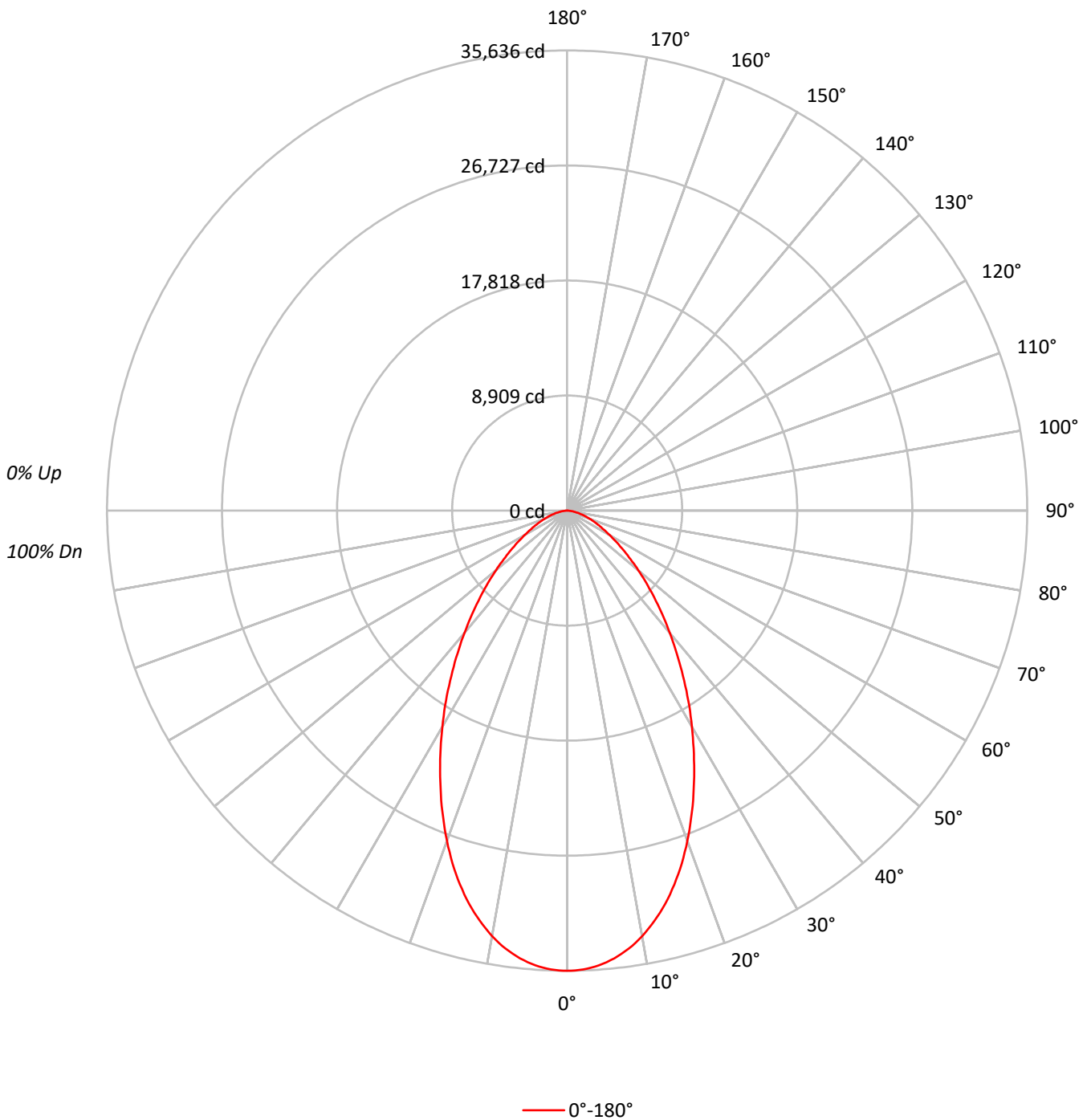
Lumens per Lamp: N/A
Luminaire Lumens: 48731.7 lumens
Efficiency: N/A
Efficacy: 124.9 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 0.91 / 0.97
Luminous Opening: Rectangular (W 0.88' x L: 1.38' x H: 0')
CIE Type: Direct

Input Watts (W): 390.3
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	111	108	104	101	109	105	103	100	101	99	97		98	96	94		94	92	91	89
2	104	97	92	87	101	95	90	86	92	88	84		89	85	82		86	83	81	79
3	96	88	81	76	94	86	80	76	84	78	74		81	77	73		79	75	72	70
4	90	80	73	67	88	79	72	67	76	71	66		74	69	65		72	68	64	63
5	84	73	66	60	82	72	65	60	70	64	59		68	63	59		67	62	58	56
6	78	67	60	54	77	66	59	54	65	58	54		63	58	53		62	57	53	51
7	74	62	55	49	72	61	54	49	60	54	49		59	53	49		57	52	48	47
8	69	58	50	45	68	57	50	45	56	49	45		55	49	45		54	48	44	43
9	65	54	46	42	64	53	46	42	52	46	41		51	45	41		50	45	41	39
10	62	50	43	39	61	50	43	38	49	43	38		48	42	38		47	42	38	37

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	318822
5°	315352
10°	304027
15°	285055
20°	259185
25°	229483
30°	199496
35°	170599
40°	144317
45°	120704
50°	100088
55°	82279
60°	67994
65°	57327
70°	48550
75°	39890
80°	31222
85°	18375



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3299.3	6.8
10°-20°	8587.6	17.6
20°-30°	10656.5	21.9
30°-40°	9788.1	20.1
40°-50°	7406.1	15.2
50°-60°	4783.2	9.8
60°-70°	2715.1	5.6
70°-80°	1245.3	2.6
80°-90°	250.4	0.5
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°	22543.4	46.3
0°-40°	32331.5	66.3
0°-60°	44520.9	91.4
0°-90°	48731.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	48731.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	35636	
5°	35114	###
15°	30776	8588
25°	23247	10656
35°	15620	9788
45°	9540	7406
55°	5275	4783
65°	2708	2715
75°	1154	1245
85°	179	250
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	35636
1°	35620
2°	35557
3°	35450
4°	35301
5°	35114
6°	34867
7°	34588
8°	34266
9°	33886
10°	33466
11°	32988
12°	32494
13°	31956
14°	31387
15°	30776
17.5°	29108
20°	27223
22.5°	25257
25°	23247
27.5°	21251
30°	19311
32.5°	17468
35°	15620
37.5°	13948
40°	12357
42.5°	10906
45°	9540
47.5°	8315
50°	7191
52.5°	6185
55°	5275
57.5°	4500
60°	3800
62.5°	3197
65°	2708
67.5°	2257
70°	1856
72.5°	1482
75°	1154
77.5°	860
80°	606
82.5°	378
85°	179
87.5°	61



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CANDELA DISTRIBUTION (continued):

90° | $\frac{0^\circ}{0}$

(END OF REPORT)