

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: G2-1810-991-39

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

Test Date: 11/02/18

Test Information

Test Method: LM-79-08
Report Number: G2-1810-991-39
Test Lab: INNOVATION CENTER(G2)
Test Date: 11/02/18
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: G8-N-PC-400-4500
Description: EPHESUS G8 LUMINAIRE. UNIT TESTED EPH-G8-HV-N-PC-WHT-IP. BEAM SHAPE 4, 4500K CCT
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

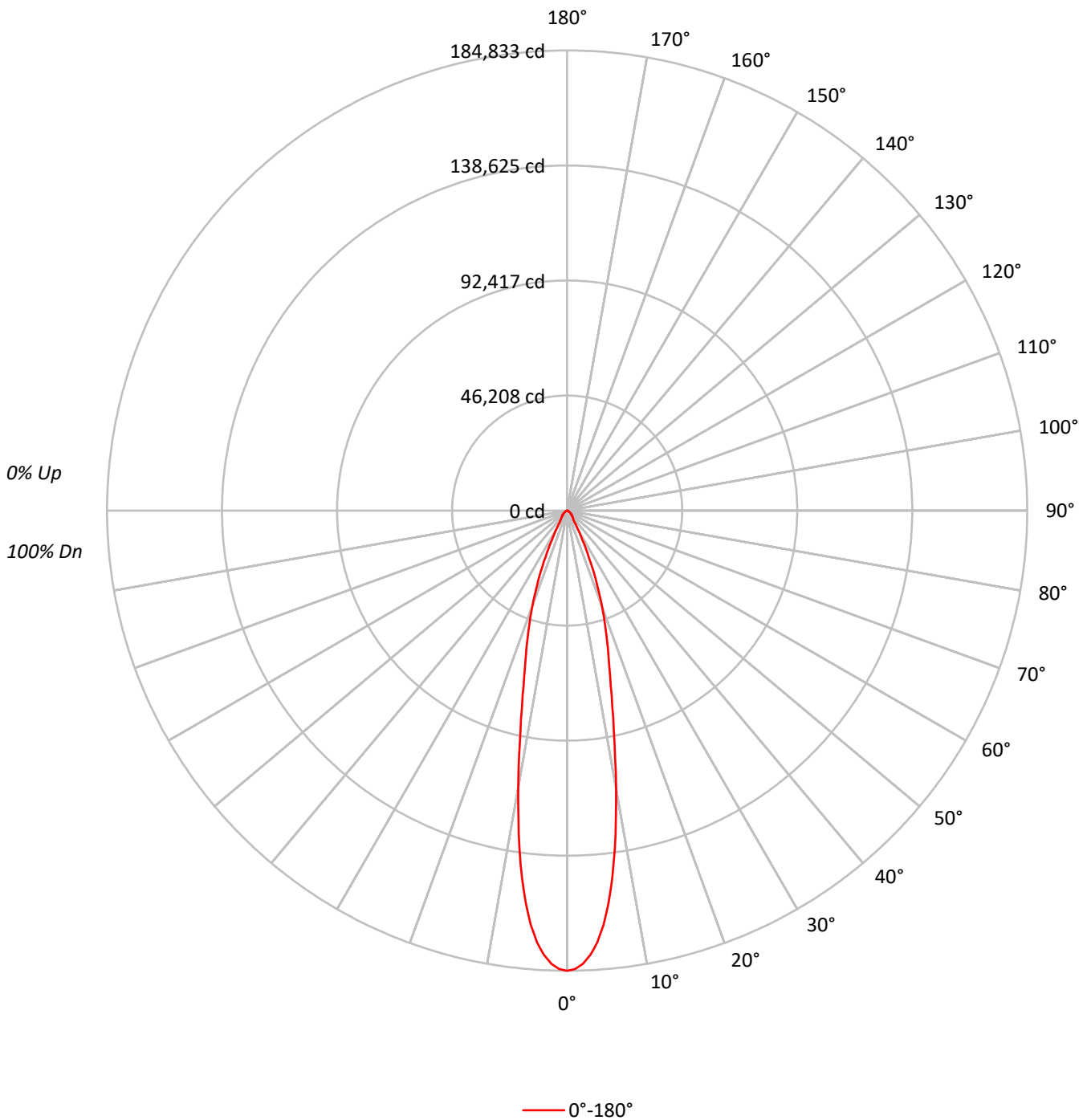
Lumens per Lamp: N/A
Luminaire Lumens: 50025.8 lumens
Efficiency: N/A
Efficacy: 124.6 lumens/watt
Spacing Criteria (0/90/45): 0.4 / 0.4 / 0.44
Luminous Opening: Rectangular (W 1.38' x L: 0.92' x H: 0')
CIE Type: Direct

Input Watts (W): 401.5
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



TEST NUMBER: G2-1810-991-39
CATALOG NUMBER: G8-N-PC-400-4500

Luminous Intensity Polar Plot





TEST NUMBER: G2-1810-991-39

CATALOG NUMBER: G8-N-PC-400-4500

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	114	112	110	108	112	110	108	106	106	104	103	102	101	100	98	98	97	95
2	110	105	102	99	107	104	100	98	100	98	96	97	95	94	95	93	92	90
3	105	100	95	92	103	98	94	91	96	92	90	93	91	88	91	89	87	86
4	101	95	90	86	99	94	89	86	92	88	85	90	86	84	88	85	83	82
5	97	90	85	82	96	89	85	81	88	84	81	86	83	80	85	82	79	78
6	94	86	81	78	92	86	81	78	84	80	77	83	79	77	82	79	76	75
7	91	83	78	75	89	82	78	74	81	77	74	80	76	74	79	76	73	72
8	87	80	75	72	86	79	75	71	78	74	71	77	74	71	76	73	71	69
9	85	77	72	69	84	76	72	69	76	71	69	75	71	68	74	71	68	67
10	82	74	70	66	81	74	69	66	73	69	66	72	69	66	72	68	66	65

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1578467
5°	1432110
10°	979920
15°	579321
20°	370856
25°	193186
30°	82370
35°	46758
40°	38182
45°	32065
50°	25881
55°	20651
60°	16670
65°	12771
70°	10013
75°	8249
80°	6984
85°	4311



TEST NUMBER: G2-1810-991-39

CATALOG NUMBER: G8-N-PC-400-4500

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	14166.5	28.3
10°-20°	18725.8	37.4
20°-30°	9754.5	19.5
30°-40°	3081.6	6.2
40°-50°	2053.1	4.1
50°-60°	1260.1	2.5
60°-70°	646.9	1.3
70°-80°	276.1	0.6
80°-90°	61.2	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°	42646.8	85.2
0°-40°	45728.5	91.4
0°-60°	49041.7	98.0
0°-90°	50025.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	50025.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	184833	
5°	167057	###
15°	65525	18726
25°	20502	9755
35°	4485	3082
45°	2655	2053
55°	1387	1260
65°	632	647
75°	250	276
85°	44	61
90°	0	



TEST NUMBER: G2-1810-991-39

CATALOG NUMBER: G8-N-PC-400-4500

CANDELA DISTRIBUTION (FULL):

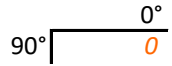
0°	
0°	184833
1°	184165
2°	182108
3°	178712
4°	173805
5°	167057
6°	158789
7°	148780
8°	137394
9°	125291
10°	113002
11°	101134
12°	90187
13°	80609
14°	72403
15°	65525
17.5°	52231
20°	40807
22.5°	29967
25°	20502
27.5°	13109
30°	8353
32.5°	5730
35°	4485
37.5°	3866
40°	3425
42.5°	3049
45°	2655
47.5°	2295
50°	1948
52.5°	1641
55°	1387
57.5°	1165
60°	976
62.5°	796
65°	632
67.5°	505
70°	401
72.5°	324
75°	250
77.5°	202
80°	142
82.5°	94
85°	44
87.5°	16



TEST NUMBER: G2-1810-991-39

CATALOG NUMBER: G8-N-PC-400-4500

CANDELA DISTRIBUTION (continued):



(END OF REPORT)