

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: G2-1810-991-42

Luminaire Tested: **G8-N-PC-300-5000**

Test Date: 11/02/18

Test Information

Test Method: LM-79-08
Report Number: G2-1810-991-42
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-300-5000
Description: EPHESUS G8 LUMINAIRE. UNIT TESTED EPH-G8-HV-N-PC-WHT-IP. BEAM SHAPE 3, 5000K CCT
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

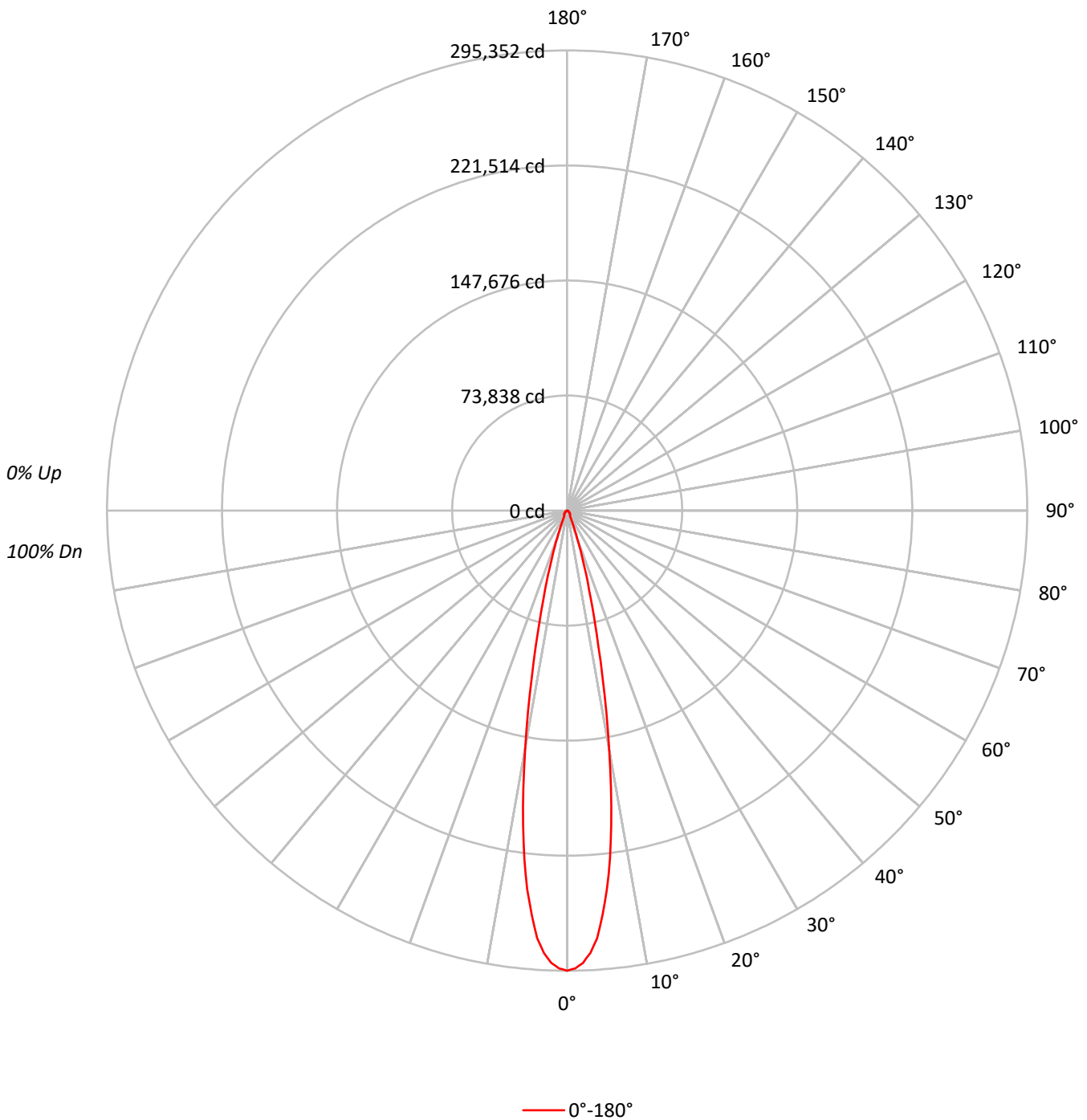
Lumens per Lamp: N/A
Luminaire Lumens: 48098.8 lumens
Efficiency: N/A
Efficacy: 111.4 lumens/watt
Spacing Criteria (0/90/45): 0.35 / 0.35 / 0.34
Luminous Opening: Rectangular (W 1.38' x L: 0.92' x H: 0')
CIE Type: Direct

Input Watts (W): 431.6
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



TEST NUMBER: G2-1810-991-42
CATALOG NUMBER: G8-N-PC-300-5000

Luminous Intensity Polar Plot





TEST NUMBER: G2-1810-991-42

CATALOG NUMBER: G8-N-PC-300-5000

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	115	113	111	109	112	110	109	107	106	105	104	103	102	101	99	99	98	96
2	111	107	104	101	109	105	103	100	102	100	98	99	98	96	97	95	94	92
3	107	102	99	96	105	101	98	95	98	96	93	96	94	92	94	92	91	89
4	104	98	94	91	102	97	93	91	95	92	90	93	91	89	92	89	88	86
5	101	95	90	87	99	94	90	87	92	89	86	91	88	86	89	87	85	84
6	98	92	87	84	97	91	87	84	90	86	84	88	85	83	87	85	83	81
7	95	89	85	82	94	88	84	82	87	84	81	86	83	81	85	82	80	79
8	93	86	82	79	92	86	82	79	85	82	79	84	81	79	83	81	78	77
9	91	84	80	77	90	84	80	77	83	80	77	82	79	77	82	79	77	76
10	89	82	78	76	88	82	78	76	81	78	75	81	77	75	80	77	75	74

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	2522295
5°	2235130
10°	1348693
15°	513401
20°	166120
25°	55416
30°	35806
35°	33413
40°	32831
45°	28261
50°	21815
55°	17495
60°	14603
65°	11276
70°	8889
75°	7556
80°	6000
85°	4899



TEST NUMBER: G2-1810-991-42

CATALOG NUMBER: G8-N-PC-300-5000

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	21461.5	44.6
10°-20°	17476.7	36.3
20°-30°	3409.3	7.1
30°-40°	2023.8	4.2
40°-50°	1785.0	3.7
50°-60°	1077.4	2.2
60°-70°	568.7	1.2
70°-80°	240.8	0.5
80°-90°	55.5	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°	42347.6	88.0
0°-40°	44371.3	92.3
0°-60°	47233.7	98.2
0°-90°	48098.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	48098.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	295352	
5°	260730	###
15°	58069	17477
25°	5881	3409
35°	3205	2024
45°	2340	1785
55°	1175	1077
65°	558	569
75°	229	241
85°	50	55
90°	0	



TEST NUMBER: G2-1810-991-42

CATALOG NUMBER: G8-N-PC-300-5000

CANDELA DISTRIBUTION (FULL):

0°	
0°	295352
1°	293852
2°	290547
3°	284317
4°	275266
5°	260730
6°	244499
7°	225476
8°	203588
9°	179935
10°	155528
11°	131580
12°	109232
13°	89454
14°	72430
15°	58069
17.5°	33020
20°	18279
22.5°	9942
25°	5881
27.5°	4251
30°	3631
32.5°	3355
35°	3205
37.5°	3087
40°	2945
42.5°	2700
45°	2340
47.5°	1961
50°	1642
52.5°	1381
55°	1175
57.5°	1028
60°	855
62.5°	692
65°	558
67.5°	449
70°	356
72.5°	279
75°	229
77.5°	167
80°	122
82.5°	79
85°	50
87.5°	14



TEST NUMBER: G2-1810-991-42

CATALOG NUMBER: G8-N-PC-300-5000

CANDELA DISTRIBUTION (continued):

90° | ———— 0°
 0

(END OF REPORT)