

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: G2-1810-991-12

Luminaire Tested: **G8-N-PC-480-4000**

Test Date: 10/24/18

Test Information

Test Method: LM-79-08
Report Number: G2-1810-991-12
Test Lab: INNOVATION CENTER(G2)
Test Date: 10/24/18
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: G8-N-PC-480-4000
Description: EPHESUS G8 LUMINAIRE. UNIT TESTED EPH-G8-HV-N-PC-WHT-IP. BEAM SHAPE 4.8, 4000K CCT
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

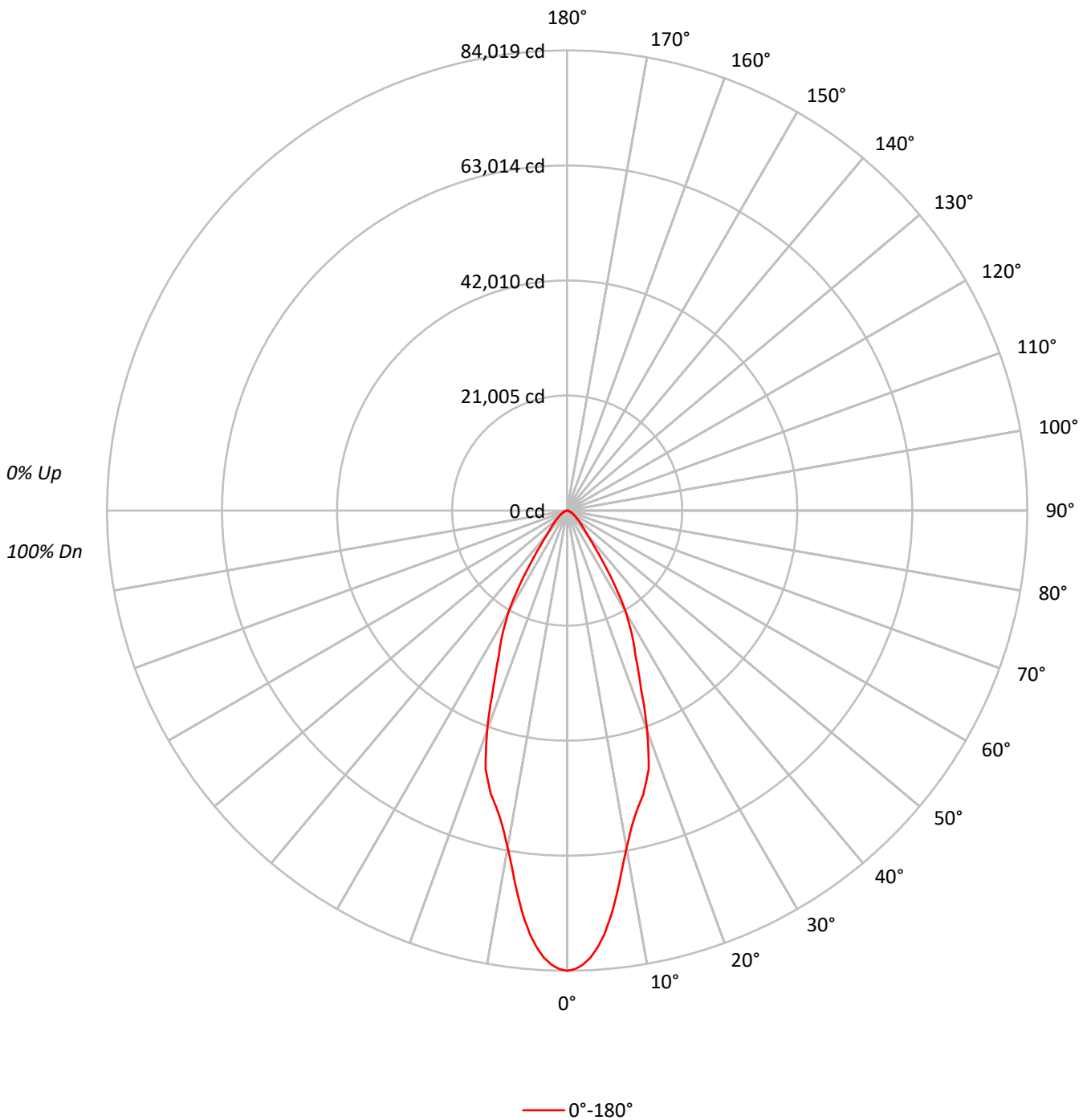
Lumens per Lamp: N/A
Luminaire Lumens: 48916.2 lumens
Efficiency: N/A
Efficacy: 124.5 lumens/watt
Spacing Criteria (0/90/45): 0.64 / 0.64 / 0.68
Luminous Opening: Rectangular (W 1.38' x L: 0.92' x H: 0')
CIE Type: Direct

Input Watts (W): 393
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: G2-1810-991-12
CATALOG NUMBER: G8-N-PC-480-4000

Luminous Intensity Polar Plot





TEST NUMBER: G2-1810-991-12

CATALOG NUMBER: G8-N-PC-480-4000

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	113	110	108	106	111	108	106	104	104	102	101		101	99	98		97	96	95	93
2	108	103	99	95	105	101	97	94	98	95	92		95	92	90		92	90	88	86
3	102	96	91	87	100	94	90	86	92	88	85		89	86	83		87	84	82	80
4	97	90	84	80	95	88	83	79	86	82	78		84	80	77		82	79	77	75
5	92	84	78	74	91	83	78	74	81	77	73		80	76	72		78	75	72	70
6	88	79	73	69	86	78	73	69	77	72	68		75	71	68		74	70	67	66
7	84	75	69	65	83	74	68	64	73	68	64		72	67	64		70	66	63	62
8	80	71	65	61	79	70	65	61	69	64	60		68	63	60		67	63	60	59
9	77	67	61	57	75	67	61	57	66	61	57		65	60	57		64	60	57	55
10	73	64	58	54	72	63	58	54	63	58	54		62	57	54		61	57	54	53

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	717519
5°	666107
10°	542112
15°	474508
20°	388505
25°	279377
30°	211264
35°	117171
40°	63555
45°	45012
50°	33494
55°	26160
60°	21247
65°	16610
70°	12984
75°	10757
80°	8803
85°	7251



TEST NUMBER: G2-1810-991-12

CATALOG NUMBER: G8-N-PC-480-4000

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6892.2	14.1
10°-20°	14808.8	30.3
20°-30°	13921.0	28.5
30°-40°	7459.3	15.2
40°-50°	2956.7	6.0
50°-60°	1614.4	3.3
60°-70°	833.9	1.7
70°-80°	350.1	0.7
80°-90°	79.8	0.2
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°	35622.1	72.8
0°-40°	43081.4	88.1
0°-60°	47652.4	97.4
0°-90°	48916.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	48916.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	84019	
5°	77702	###
15°	53670	14809
25°	29649	13921
35°	11239	7459
45°	3727	2957
55°	1757	1614
65°	822	834
75°	326	350
85°	74	80
90°	0	



TEST NUMBER: G2-1810-991-12

CATALOG NUMBER: G8-N-PC-480-4000

CANDELA DISTRIBUTION (FULL):

0°	
0°	84019
1°	83723
2°	82948
3°	81692
4°	79927
5°	77702
6°	74944
7°	71808
8°	68543
9°	65355
10°	62515
11°	60049
12°	58007
13°	56340
14°	54949
15°	53670
17.5°	49493
20°	42749
22.5°	35305
25°	29649
27.5°	25665
30°	21424
32.5°	16201
35°	11239
37.5°	7758
40°	5701
42.5°	4539
45°	3727
47.5°	3063
50°	2521
52.5°	2103
55°	1757
57.5°	1503
60°	1244
62.5°	1022
65°	822
67.5°	653
70°	520
72.5°	409
75°	326
77.5°	244
80°	179
82.5°	109
85°	74
87.5°	21



TEST NUMBER: G2-1810-991-12

CATALOG NUMBER: G8-N-PC-480-4000

CANDELA DISTRIBUTION (continued):

90° | $\frac{0^\circ}{0}$

(END OF REPORT)