

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: G2-1810-991-35

Luminaire Tested: **G8-N-PC-450-3500**

Test Date: 10/29/18

Test Information

Test Method: LM-79-08
Report Number: G2-1810-991-35
Test Lab: INNOVATION CENTER(G2)
Test Date: 10/29/18
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: G8-N-PC-450-3500
Description: EPHESUS G8 LUMINAIRE. UNIT TESTED EPH-G8-HV-N-PC-WHT-IP. BEAM SHAPE 4.5, 3500K CCT
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

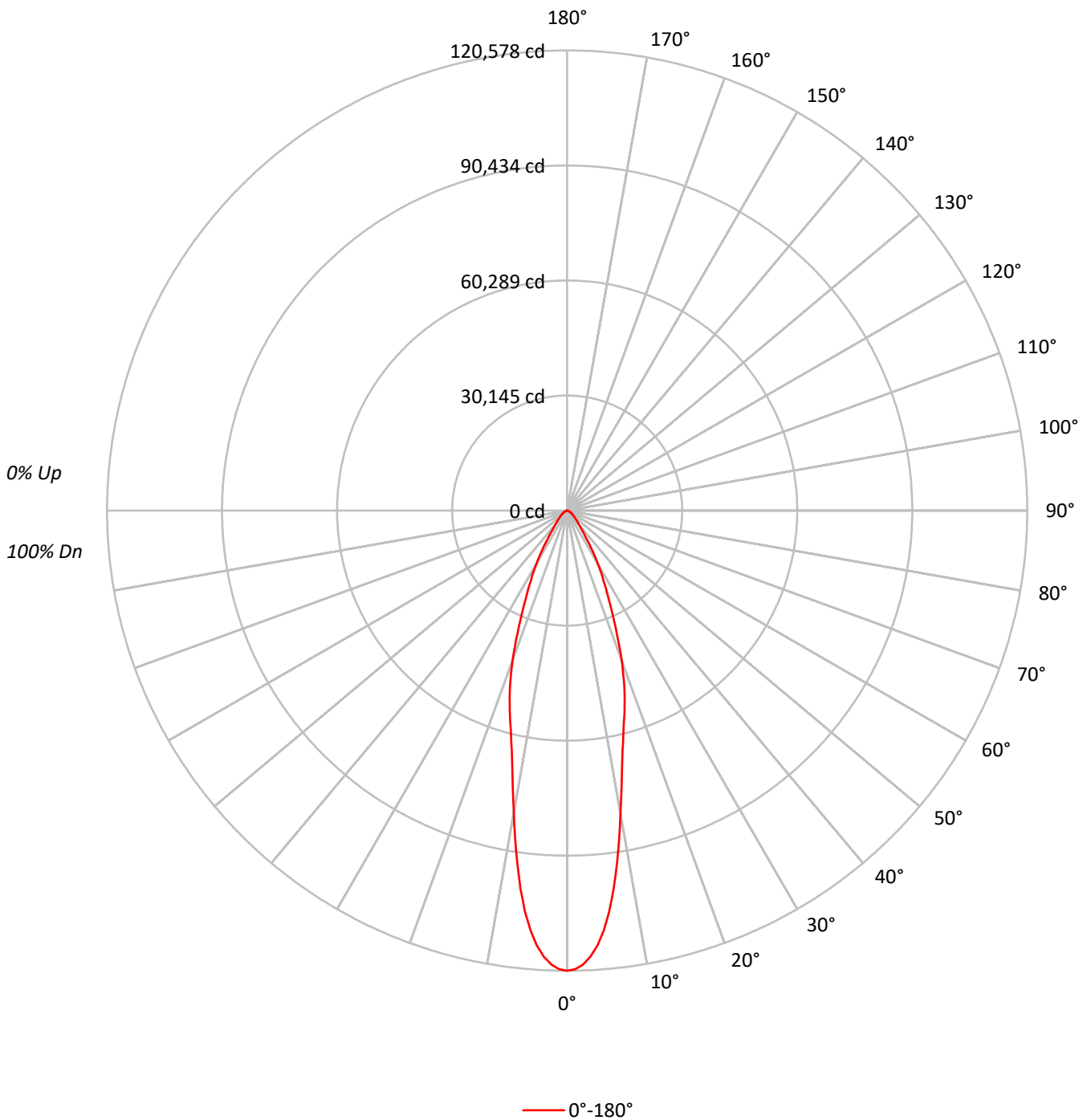
Lumens per Lamp: N/A
Luminaire Lumens: 48688.4 lumens
Efficiency: N/A
Efficacy: 120.8 lumens/watt
Spacing Criteria (0/90/45): 0.46 / 0.46 / 0.55
Luminous Opening: Rectangular (W 1.38' x L: 0.92' x H: 0')
CIE Type: Direct

Input Watts (W): 403
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: G2-1810-991-35
CATALOG NUMBER: G8-N-PC-450-3500

Luminous Intensity Polar Plot





TEST NUMBER: G2-1810-991-35

CATALOG NUMBER: G8-N-PC-450-3500

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	111	109	106	111	109	107	105	105	103	101	101	100	98	98	97	96	94
2	108	104	100	96	106	102	98	95	99	96	93	96	93	91	93	91	89	88
3	103	97	92	89	101	96	91	88	93	90	87	91	88	85	89	86	84	82
4	99	92	86	82	97	90	86	82	88	84	81	86	83	80	84	82	79	78
5	94	86	81	77	93	86	80	77	84	79	76	82	78	75	81	77	75	73
6	90	82	76	72	89	81	76	72	80	75	72	78	74	71	77	74	71	69
7	86	78	72	68	85	77	72	68	76	71	68	75	71	68	74	70	67	66
8	83	74	69	65	82	74	68	65	73	68	65	72	67	64	71	67	64	63
9	80	71	66	62	79	70	65	62	70	65	62	69	64	61	68	64	61	60
10	77	68	63	59	76	67	62	59	67	62	59	66	62	59	65	61	59	57

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1029732
5°	946533
10°	698757
15°	508158
20°	379380
25°	243598
30°	159119
35°	88063
40°	52686
45°	39408
50°	30106
55°	23822
60°	18890
65°	14974
70°	11835
75°	9767
80°	8311
85°	6565



TEST NUMBER: G2-1810-991-35

CATALOG NUMBER: G8-N-PC-450-3500

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9541.2	19.6
10°-20°	16106.6	33.1
20°-30°	12202.7	25.1
30°-40°	5659.9	11.6
40°-50°	2563.6	5.3
50°-60°	1461.1	3.0
60°-70°	747.7	1.5
70°-80°	323.5	0.7
80°-90°	82.0	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°	37850.5	77.7
0°-40°	43510.4	89.4
0°-60°	47535.2	97.6
0°-90°	48688.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	48688.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	120578	
5°	110414	###
15°	57476	16107
25°	25852	12203
35°	8447	5660
45°	3263	2564
55°	1600	1461
65°	741	748
75°	296	323
85°	67	82
90°	0	



TEST NUMBER: G2-1810-991-35

CATALOG NUMBER: G8-N-PC-450-3500

CANDELA DISTRIBUTION (FULL):

0°	
0°	120578
1°	120166
2°	119012
3°	117042
4°	114224
5°	110414
6°	105648
7°	99994
8°	93610
9°	86997
10°	80579
11°	74549
12°	69140
13°	64567
14°	60740
15°	57476
17.5°	50094
20°	41745
22.5°	33094
25°	25852
27.5°	20543
30°	16136
32.5°	11944
35°	8447
37.5°	6116
40°	4726
42.5°	3892
45°	3263
47.5°	2722
50°	2266
52.5°	1911
55°	1600
57.5°	1361
60°	1106
62.5°	927
65°	741
67.5°	572
70°	474
72.5°	375
75°	296
77.5°	235
80°	169
82.5°	114
85°	67
87.5°	36



TEST NUMBER: G2-1810-991-35

CATALOG NUMBER: G8-N-PC-450-3500

CANDELA DISTRIBUTION (continued):

90° | $\frac{0^\circ}{0}$

(END OF REPORT)