

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: G2-1810-991-37

Luminaire Tested: **G8-N-PC-300-4500**

Test Date: 10/29/18

Test Information

Test Method: LM-79-08
Report Number: G2-1810-991-37
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-300-4500
Description: EPHESUS G8 LUMINAIRE. UNIT TESTED EPH-G8-HV-N-PC-WHT-IP. BEAM SHAPE 3, 4500K CCT
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

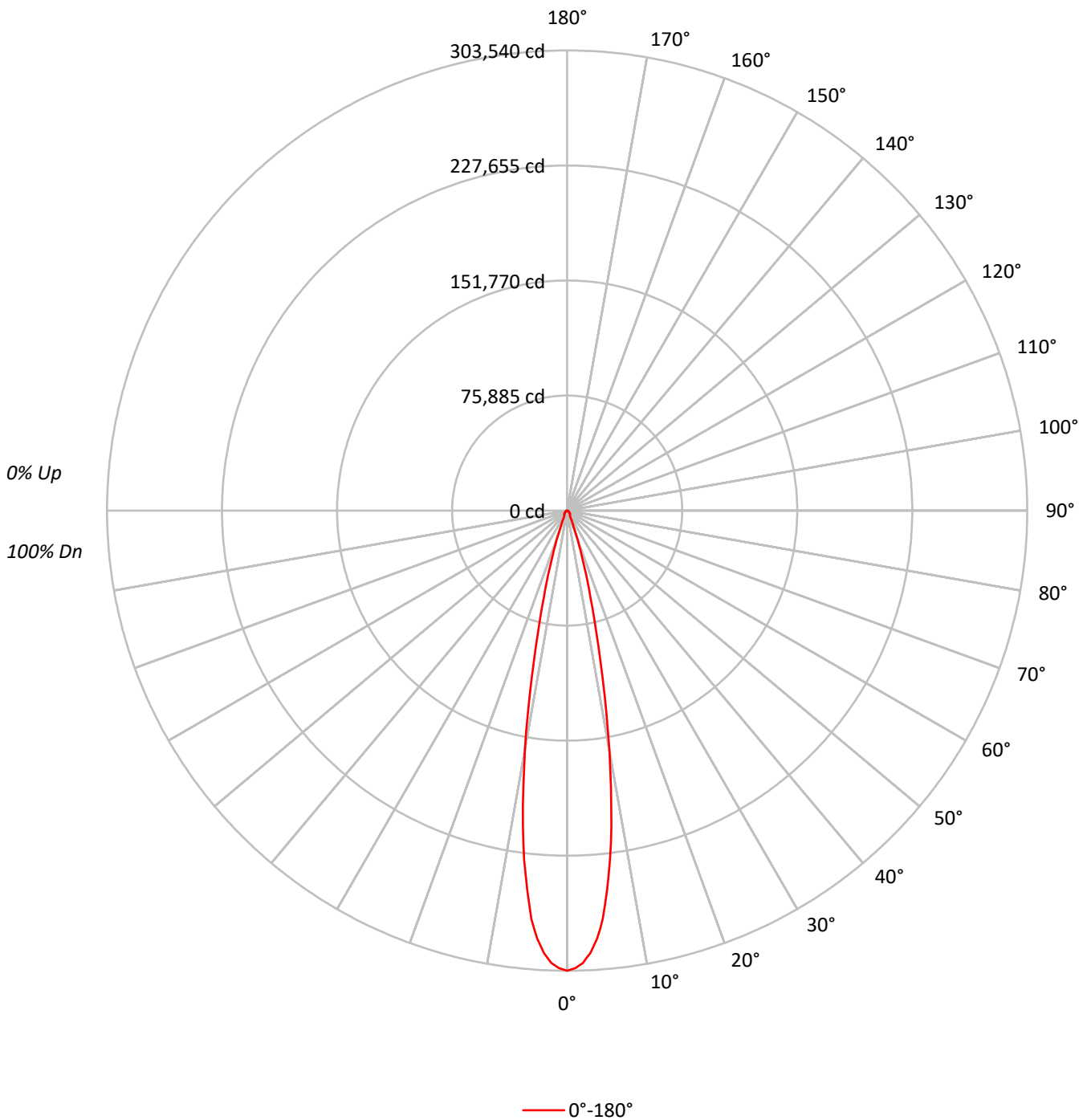
Lumens per Lamp: N/A
Luminaire Lumens: 49173.3 lumens
Efficiency: N/A
Efficacy: 113.7 lumens/watt
Spacing Criteria (0/90/45): 0.35 / 0.35 / 0.34
Luminous Opening: Rectangular (W 1.38' x L: 0.92' x H: 0')
CIE Type: Direct

Input Watts (W): 432.4
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	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	93
3	107	102	99	96	105	101	98	95	99	96	93	96	94	92	94	92	91	89
4	104	98	94	91	102	97	94	91	95	92	90	93	91	89	92	90	88	86
5	101	95	91	88	99	94	90	87	92	89	86	91	88	86	89	87	85	84
6	98	92	88	85	97	91	87	84	90	86	84	88	85	83	87	85	83	82
7	95	89	85	82	94	88	85	82	87	84	81	86	83	81	85	83	81	80
8	93	87	82	80	92	86	82	79	85	82	79	84	81	79	83	81	79	78
9	91	84	80	78	90	84	80	78	83	80	77	82	79	77	82	79	77	76
10	89	82	78	76	88	82	78	76	81	78	76	81	78	75	80	77	75	74

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	2592220
5°	2317667
10°	1389060
15°	522463
20°	166947
25°	55350
30°	35934
35°	33851
40°	33389
45°	28829
50°	22254
55°	18001
60°	14825
65°	11437
70°	8639
75°	6896
80°	5705
85°	2940



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	22097.0	44.9
10°-20°	17847.1	36.3
20°-30°	3417.0	6.9
30°-40°	2045.7	4.2
40°-50°	1821.0	3.7
50°-60°	1095.3	2.2
60°-70°	571.6	1.2
70°-80°	230.8	0.5
80°-90°	47.8	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°	43361.1	88.2
0°-40°	45406.7	92.3
0°-60°	48323.1	98.3
0°-90°	49173.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	49173.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	303540	
5°	270358	###
15°	59094	17847
25°	5874	3417
35°	3247	2046
45°	2387	1821
55°	1209	1095
65°	566	572
75°	209	231
85°	30	48
90°	0	



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CANDELA DISTRIBUTION (FULL):

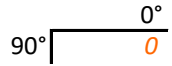
0°	
0°	303540
1°	301861
2°	298556
3°	292250
4°	283021
5°	270358
6°	251570
7°	232266
8°	209724
9°	184665
10°	160183
11°	135503
12°	112057
13°	91455
14°	73658
15°	59094
17.5°	33482
20°	18370
22.5°	9982
25°	5874
27.5°	4242
30°	3644
32.5°	3386
35°	3247
37.5°	3120
40°	2995
42.5°	2760
45°	2387
47.5°	2000
50°	1675
52.5°	1403
55°	1209
57.5°	1030
60°	868
62.5°	706
65°	566
67.5°	438
70°	346
72.5°	274
75°	209
77.5°	162
80°	116
82.5°	77
85°	30
87.5°	11



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CANDELA DISTRIBUTION (continued):



(END OF REPORT)