

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: G2-1902-155-41

Luminaire Tested: **G8-W-PC-500-4500**

Test Date: 03/09/19

Test Information

Test Method: LM-79-08
Report Number: G2-1902-155-41
Test Lab: INNOVATION CENTER(G2)
Test Date: 03/09/19
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: G8-W-PC-500-4500
Description: EPHEBUS G8 LUMINAIRE. UNIT TESTED EPH-G8-HV-W-PC-WHT-IP. BEAM SHAPE 5, 4500K CCT
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

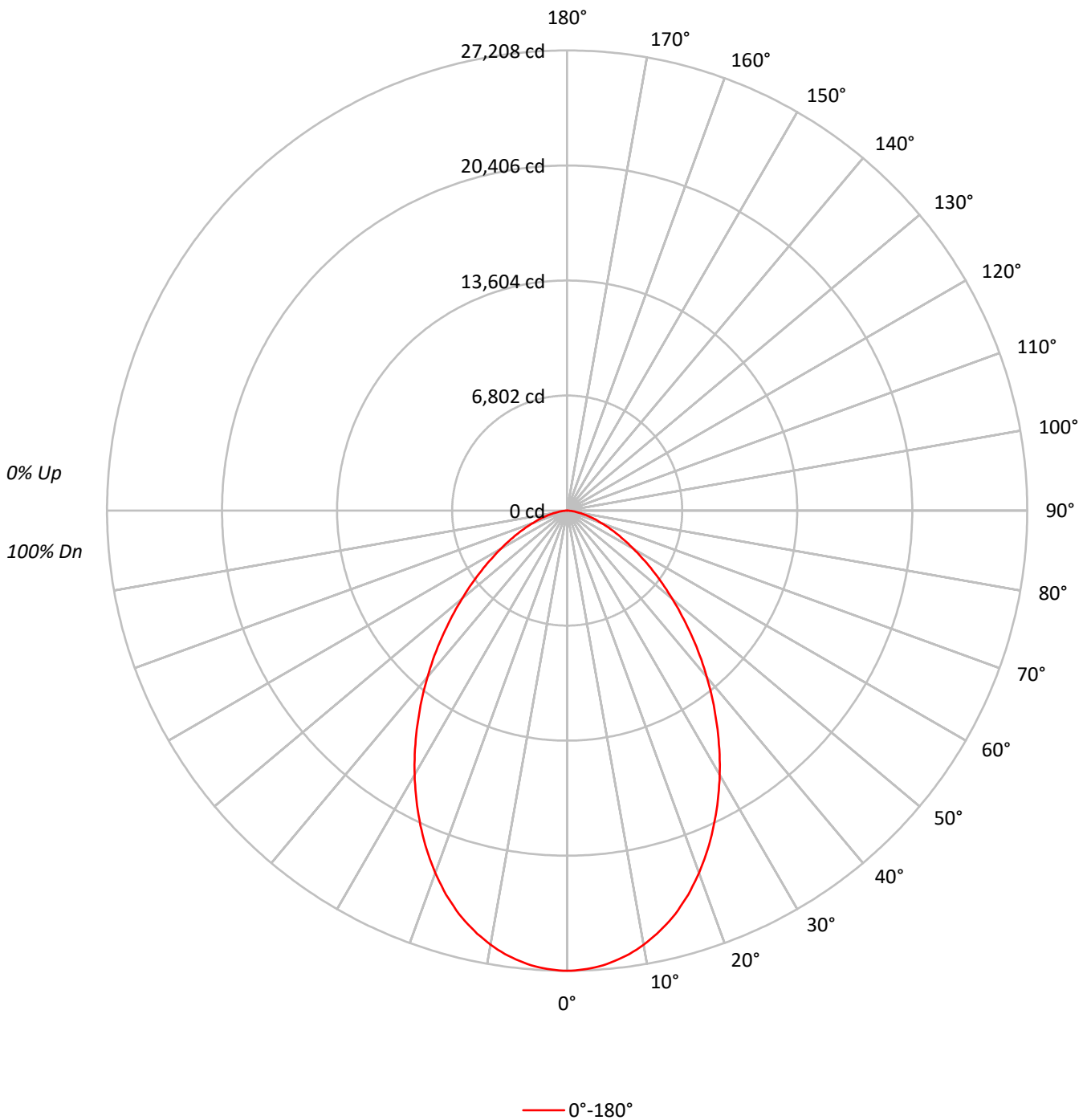
Lumens per Lamp: N/A
Luminaire Lumens: 47036.6 lumens
Efficiency: N/A
Efficacy: 119.2 lumens/watt
Spacing Criteria (0/90/45): 1.03 / 1.03 / 1.1
Luminous Opening: Rectangular (W 0.88' x L: 1.38' x H: 0')
CIE Type: Direct

Input Watts (W): 394.6
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: G2-1902-155-41
CATALOG NUMBER: G8-W-PC-500-4500

Luminous Intensity Polar Plot





TEST NUMBER: G2-1902-155-41

CATALOG NUMBER: G8-W-PC-500-4500

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	111	107	103	100	108	105	102	99	101	98	96		97	95	93		93	92	90	88
2	103	96	90	85	100	94	89	84	90	86	82		87	84	81		84	81	79	77
3	95	86	79	74	93	84	78	73	82	76	72		79	74	70		77	73	69	67
4	88	78	70	64	86	76	69	64	74	68	63		72	66	62		70	65	61	59
5	82	71	63	57	80	69	62	57	67	61	56		66	60	55		64	59	55	53
6	76	64	56	51	74	63	56	51	62	55	50		60	54	50		59	53	49	47
7	71	59	51	46	70	58	51	46	57	50	45		55	49	45		54	49	45	43
8	67	54	47	42	65	54	46	41	53	46	41		51	45	41		50	45	41	39
9	63	50	43	38	61	50	43	38	49	42	38		48	42	37		47	41	37	36
10	59	47	40	35	58	46	39	35	45	39	35		45	39	35		44	38	34	33

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	243420
5°	241736
10°	236773
15°	228786
20°	217036
25°	202623
30°	186407
35°	168546
40°	150110
45°	131117
50°	112670
55°	96130
60°	81128
65°	68399
70°	56580
75°	46251
80°	34777
85°	19812



TEST NUMBER: G2-1902-155-41

CATALOG NUMBER: G8-W-PC-500-4500

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2542.0	5.4
10°-20°	6924.1	14.7
20°-30°	9418.3	20.0
30°-40°	9634.3	20.5
40°-50°	8013.5	17.0
50°-60°	5553.6	11.8
60°-70°	3233.6	6.9
70°-80°	1444.6	3.1
80°-90°	272.5	0.6
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°	18884.4	40.1
0°-40°	28518.8	60.6
0°-60°	42085.9	89.5
0°-90°	47036.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	47036.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	27208	
5°	26917	###
15°	24701	6924
25°	20526	9418
35°	15432	9634
45°	10363	8014
55°	6163	5554
65°	3231	3234
75°	1338	1445
85°	193	273
90°	0	



TEST NUMBER: G2-1902-155-41

CATALOG NUMBER: G8-W-PC-500-4500

CANDELA DISTRIBUTION (FULL):

0°	
0°	27208
1°	27199
2°	27151
3°	27091
4°	27017
5°	26917
6°	26784
7°	26632
8°	26476
9°	26282
10°	26063
11°	25818
12°	25572
13°	25293
14°	25003
15°	24701
17.5°	23811
20°	22796
22.5°	21698
25°	20526
27.5°	19305
30°	18044
32.5°	16742
35°	15432
37.5°	14129
40°	12853
42.5°	11603
45°	10363
47.5°	9210
50°	8095
52.5°	7110
55°	6163
57.5°	5310
60°	4534
62.5°	3838
65°	3231
67.5°	2673
70°	2163
72.5°	1737
75°	1338
77.5°	990
80°	675
82.5°	408
85°	193
87.5°	64



TEST NUMBER: G2-1902-155-41

CATALOG NUMBER: G8-W-PC-500-4500

CANDELA DISTRIBUTION (continued):

90° | $\frac{0^\circ}{0}$

(END OF REPORT)