

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: G2-1810-991-40

Luminaire Tested: **G8-N-PC-450-4500**

Test Date: 11/02/18

**Test Information**

Test Method: LM-79-08  
Report Number: G2-1810-991-40  
Test Lab: INNOVATION CENTER(G2)  
Test Date: 11/02/18  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHEBUS  
Catalog Number: G8-N-PC-450-4500  
Description: EPHEBUS G8 LUMINAIRE. UNIT TESTED EPH-G8-HV-N-PC-WHT-IP. BEAM SHAPE 4.5, 4500K CCT  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

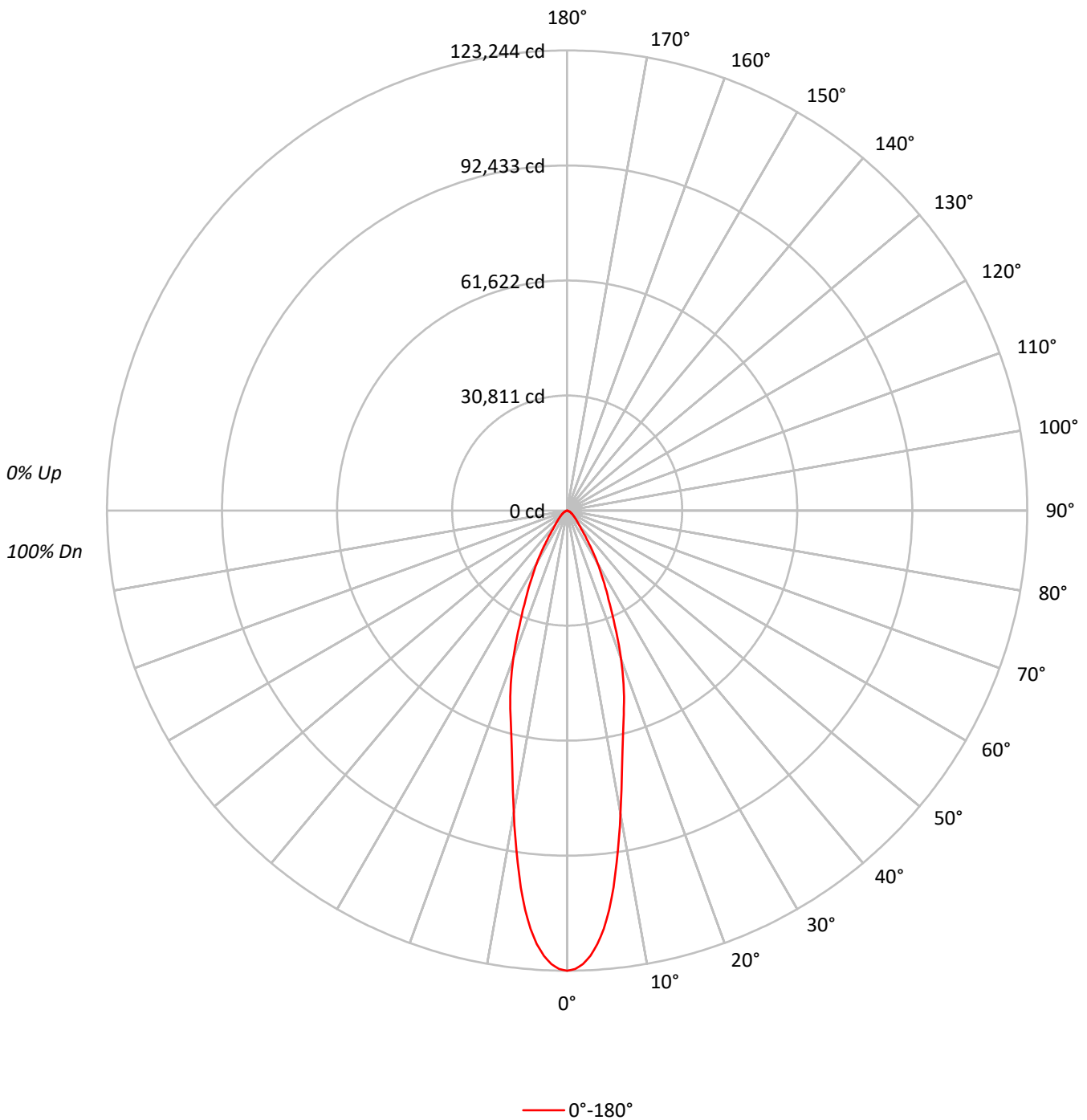
Lumens per Lamp: N/A  
Luminaire Lumens: 49485.1 lumens  
Efficiency: N/A  
Efficacy: 128.0 lumens/watt  
Spacing Criteria (0/90/45): 0.46 / 0.46 / 0.55  
Luminous Opening: Rectangular (W 1.38' x L: 0.92' x H: 0')  
CIE Type: Direct

Input Watts (W): 386.6  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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	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	81	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	65	62	79	70	65	62	69	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°	1052499
5°	964167
10°	713889
15°	515063
20°	382379
25°	247066
30°	161298
35°	90284
40°	54236
45°	40459
50°	30929
55°	24507
60°	19744
65°	15277
70°	11810
75°	9800
80°	7918
85°	6761



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	9721.6	19.6
10°-20°	16345.0	33.0
20°-30°	12342.7	24.9
30°-40°	5773.5	11.7
40°-50°	2635.3	5.3
50°-60°	1496.2	3.0
60°-70°	767.1	1.6
70°-80°	323.8	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°	38409.3	77.6
0°-40°	44182.8	89.3
0°-60°	48314.3	97.6
0°-90°	49485.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	49485.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	123244	
5°	112471	###
15°	58257	16345
25°	26220	12343
35°	8660	5773
45°	3350	2635
55°	1646	1496
65°	756	767
75°	297	324
85°	69	80
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	123244
1°	122791
2°	121516
3°	119392
4°	116372
5°	112471
6°	107498
7°	101706
8°	95267
9°	88733
10°	82324
11°	76181
12°	70671
13°	65825
14°	61763
15°	58257
17.5°	50562
20°	42075
22.5°	33403
25°	26220
27.5°	20812
30°	16357
32.5°	12087
35°	8660
37.5°	6304
40°	4865
42.5°	4020
45°	3350
47.5°	2782
50°	2328
52.5°	1946
55°	1646
57.5°	1381
60°	1156
62.5°	937
65°	756
67.5°	601
70°	473
72.5°	385
75°	297
77.5°	230
80°	161
82.5°	119
85°	69
87.5°	25



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CANDELA DISTRIBUTION (continued):

90° |  $\frac{0^\circ}{0}$

(END OF REPORT)