

Classified  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269



Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: HALO COMMERCIAL

Report Number: P583919

Luminaire Tested: **HCC8S15D010BZ-HM80520930-81NDC**

Issue Date: 10/21/2021

### Test Information

Test Method: LM-41-14  
 Report Number: P583919  
 TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-1)  
 Test Lab: COOPER LIGHTING SOLUTIONS  
 Issue Date: 10/21/2021  
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
 Product Line: HALO COMMERCIAL  
 Catalog Number: HCC8S15D010BZ-HM80520930-81NDC  
 Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" NARROW DISTRIBUTION, SPECULAR TRIM  
 Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT  
 CYLINDER  
 Ballast/Driver: ELECTRONIC DRIVER

### Summary

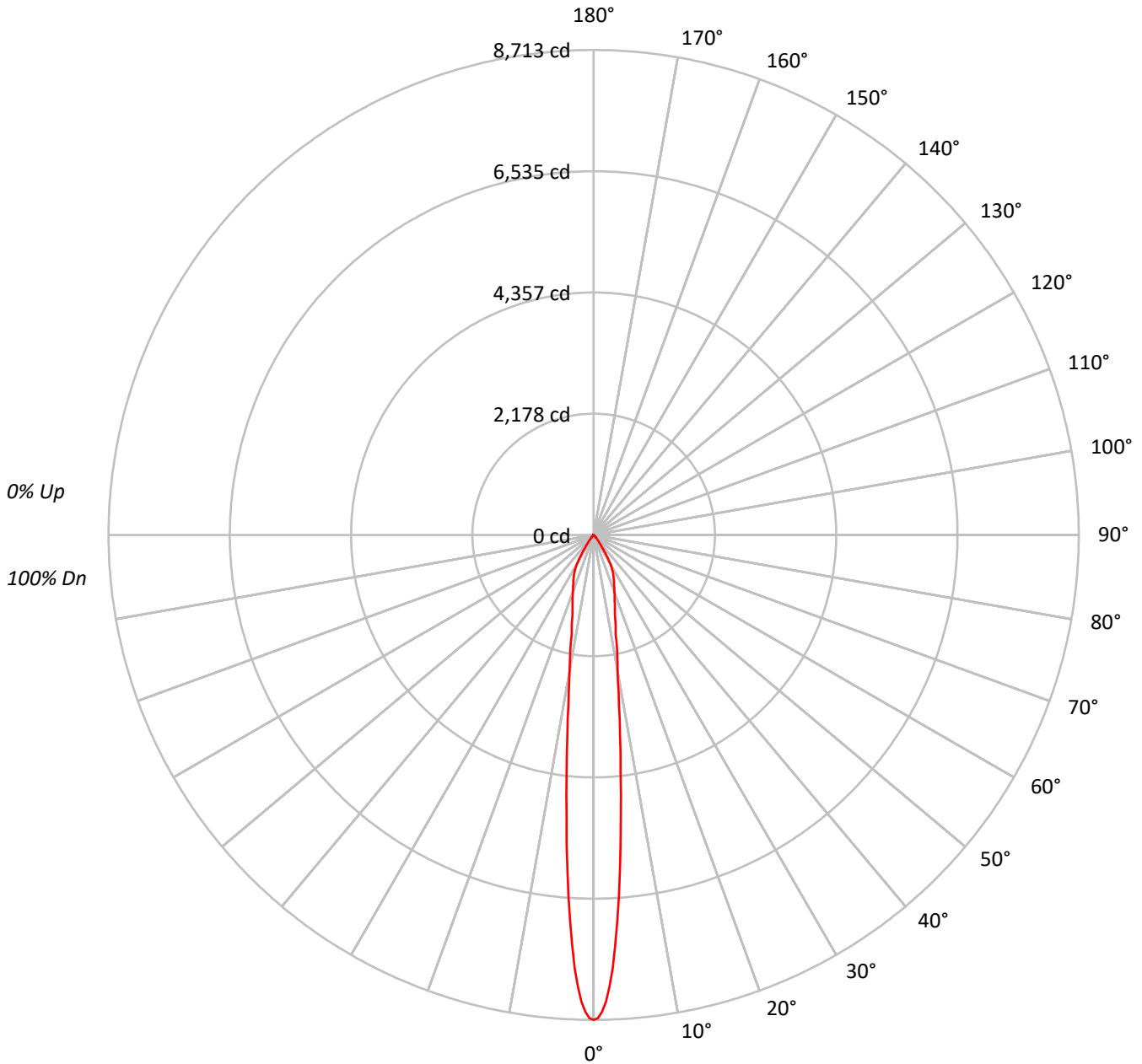
Lumens per Lamp: N/A  
 Luminaire Lumens: 1427.6 lumens  
 Efficiency: N/A  
 Efficacy: 102.0 lumens/watt  
 Spacing Criteria (0/90/45): 0.22 / 0.22 / 0.27  
 Luminous Opening: Circular (Dia: 0.67' x H: 0')  
 CIE Type: Direct

Input Watts (W): 14  
 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



TEST NUMBER: P583919  
CATALOG NUMBER: HCC8S15D010BZ-HM80520930-81NDC

### Luminous Intensity Polar Plot





TEST NUMBER: P583919

CATALOG NUMBER: HCC8S15D010BZ-HM80520930-81NDC

**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	50	30	10	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100
1	115	112	110	108	112	110	108	106	106	105	103	102	101	100	99	98	97	96	96	96	96
2	110	106	103	100	108	104	101	99	101	99	97	98	96	95	96	94	93	91	91	91	91
3	106	101	97	93	104	99	96	93	97	94	91	95	92	90	92	90	89	87	87	87	87
4	102	96	91	88	100	95	91	88	93	89	87	91	88	86	89	87	85	83	83	83	83
5	98	92	87	83	97	91	86	83	89	85	82	87	84	82	86	83	81	80	80	80	80
6	95	88	83	79	93	87	82	79	86	82	79	84	81	78	83	80	78	76	76	76	76
7	91	84	79	76	90	83	79	76	82	78	75	81	78	75	80	77	75	73	73	73	73
8	88	81	76	73	87	80	76	73	79	75	72	78	75	72	77	74	72	71	71	71	71
9	85	78	73	70	84	77	73	70	76	72	70	76	72	69	75	72	69	68	68	68	68
10	83	75	70	67	82	75	70	67	74	70	67	73	69	67	73	69	67	66	66	66	66

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	268674
5°	172331
10°	77851
15°	46970
20°	35795
25°	28903
30°	21182
35°	7672
40°	2862
45°	1300
50°	417
55°	102
60°	62
65°	73
70°	0
75°	0
80°	178
85°	354



TEST NUMBER: P583919  
 CATALOG NUMBER: HCC8S15D010BZ-HM80520930-81NDC

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	424.6	29.7
10°-20°	431.3	30.2
20°-30°	386.1	27.0
30°-40°	155.5	10.9
40°-50°	25.5	1.8
50°-60°	2.3	0.2
60°-70°	0.9	0.1
70°-80°	0.7	0.0
80°-90°	1.0	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°	1242.0	87.0
0°-40°	1397.5	97.9
0°-60°	1425.3	99.8
0°-90°	1427.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1427.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	8713	
5°	5567	425
15°	1471	431
25°	850	386
35°	204	156
45°	30	26
55°	2	2
65°	1	1
75°	0	1
85°	1	1
90°	0	



TEST NUMBER: P583919  
CATALOG NUMBER: HCC8S15D010BZ-HM80520930-81NDC

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	8712.9
0.5°	8686.0
1°	8573.5
1.5°	8392.8
2°	8118.9
2.5°	7795.0
3°	7389.5
3.5°	6944.5
4°	6504.3
4.5°	6011.4
5°	5567.3
5.5°	5083.9
6°	4691.8
6.5°	4283.4
7°	3962.4
7.5°	3623.2
8°	3350.3
8.5°	3076.4
9°	2870.7
9.5°	2643.9
10°	2486.3
12.5°	1833.6
15°	1471.3
17.5°	1257.1
20°	1090.8
22.5°	958.2
25°	849.5
27.5°	741.0
30°	594.9
32.5°	382.5
35°	203.8
37.5°	112.4
40°	71.1
42.5°	47.1
45°	29.8
47.5°	18.3
50°	8.7
52.5°	2.9
55°	1.9
57.5°	1.0
60°	1.0
62.5°	1.0
65°	1.0



TEST NUMBER: P583919  
CATALOG NUMBER: HCC8S15D010BZ-HM80520930-81NDC

**CANDELA DISTRIBUTION (continued):**

	0°
72.5°	0.0
75°	0.0
77.5°	1.0
80°	1.0
82.5°	1.0
85°	1.0
87.5°	1.0
90°	0.0

Classified  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9



Classified  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



Classified  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



— 0°-180°

Classified  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



Classified  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



Classified  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



67.5°		1.0
70°		0.0

Classified  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



(END OF REPORT)