

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: P583791

Luminaire Tested: **HCC8S10D010BZ-HM80520930-81WDH**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P583791  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-8)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 10/21/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC8S10D010BZ-HM80520930-81WDH  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

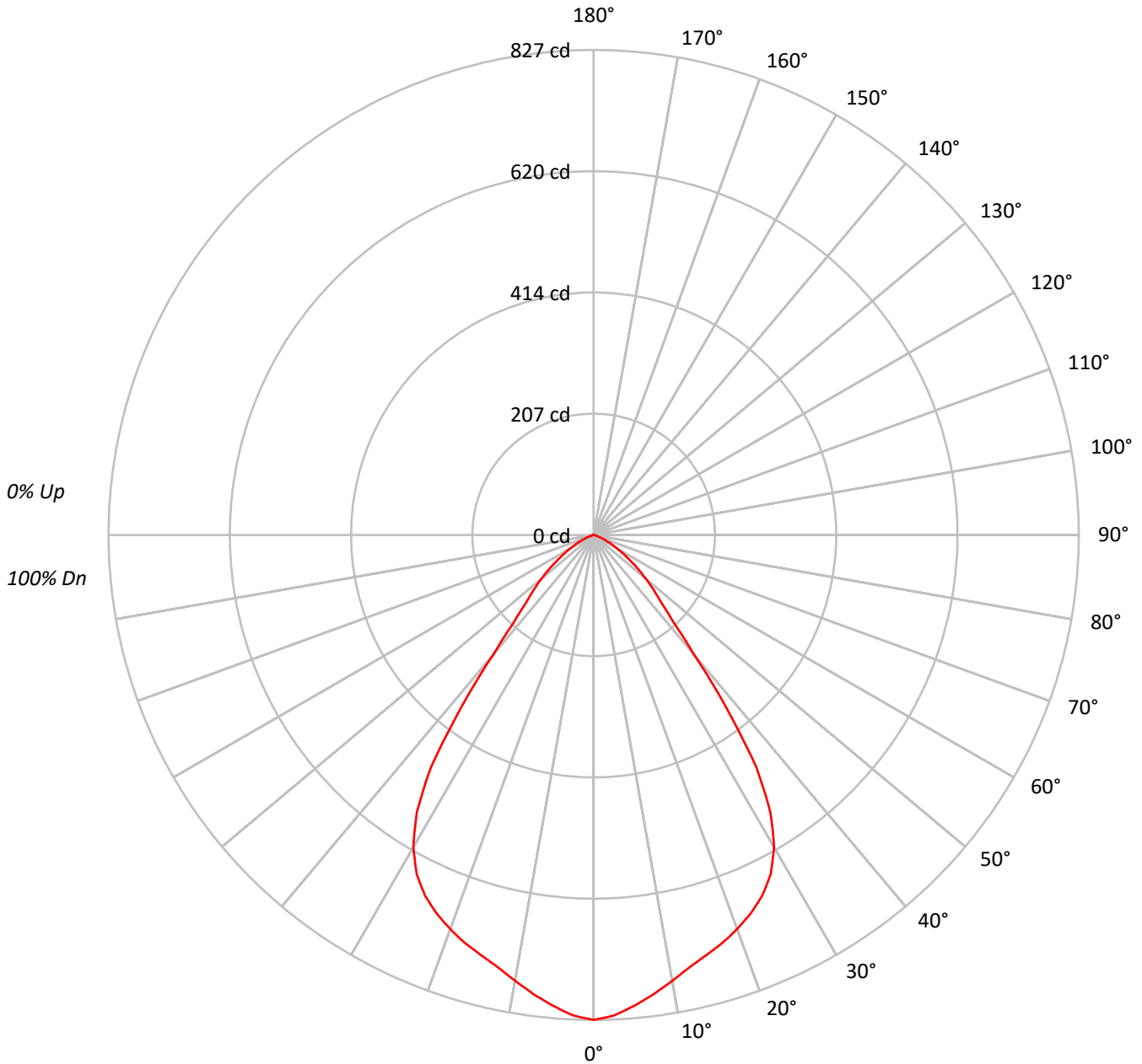
Lumens per Lamp: N/A  
Luminaire Lumens: 1114.1 lumens  
Efficiency: N/A  
Efficacy: 112.5 lumens/watt  
Spacing Criteria (0/90/45): 1.12 / 1.12 / 1.06  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

Input Watts (W): 9.9  
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: P583791  
CATALOG NUMBER: HCC8S10D010BZ-HM80520930-81WDH

### Luminous Intensity Polar Plot





TEST NUMBER: P583791  
 CATALOG NUMBER: HCC8S10D010BZ-HM80520930-81WDH

**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	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	92
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	85	83
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	75
4	93	84	78	73	91	83	77	72	81	76	72	79	74	71	77	73	70	68
5	87	78	71	66	86	77	70	66	75	69	65	73	68	64	71	67	64	62
6	82	72	65	60	80	71	64	60	69	64	59	68	63	59	66	62	58	57
7	77	67	60	55	76	66	59	55	64	59	54	63	58	54	62	57	54	52
8	73	62	55	50	71	61	55	50	60	54	50	59	54	50	58	53	49	48
9	69	58	51	46	67	57	51	46	56	50	46	55	50	46	54	49	46	44
10	65	54	47	43	64	53	47	43	53	47	43	52	46	43	51	46	42	41

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

	0°
0°	25505
5°	24934
10°	24167
15°	23681
20°	23466
25°	23116
30°	21895
35°	18190
40°	10712
45°	7086
50°	5574
55°	4102
60°	2855
65°	1737
70°	757
75°	334
80°	249
85°	0



TEST NUMBER: P583791  
 CATALOG NUMBER: HCC8S10D010BZ-HM80520930-81WDH

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	75.9	6.8
10°-20°	209.7	18.8
20°-30°	310.7	27.9
30°-40°	287.1	25.8
40°-50°	132.4	11.9
50°-60°	69.6	6.2
60°-70°	24.6	2.2
70°-80°	3.8	0.3
80°-90°	0.4	0.0
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°	596.2	53.5
0°-40°	883.3	79.3
0°-60°	1085.2	97.4
0°-90°	1114.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1114.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	827	
5°	806	76
15°	742	210
25°	679	311
35°	483	287
45°	162	132
55°	76	70
65°	24	25
75°	3	4
85°	0	0
90°	0	



TEST NUMBER: P583791

CATALOG NUMBER: HCC8S10D010BZ-HM80520930-81WDH

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	827.1
2.5°	820.1
5°	805.5
7.5°	789.4
10°	771.8
12.5°	755.0
15°	741.8
17.5°	729.7
20°	715.1
22.5°	699.0
25°	679.4
27.5°	652.8
30°	614.9
32.5°	561.0
35°	483.2
37.5°	371.2
40°	266.1
42.5°	199.7
45°	162.5
47.5°	138.0
50°	116.2
52.5°	95.2
55°	76.3
57.5°	60.2
60°	46.3
62.5°	35.0
65°	23.8
67.5°	14.1
70°	8.4
72.5°	4.9
75°	2.8
77.5°	2.0
80°	1.4
82.5°	0.7
85°	0.0
87.5°	0.0
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



(END OF REPORT)