

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: P583842

Luminaire Tested: **HCC8S15D010BZ-HM80520827-81WDH**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P583842  
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: HCC8S15D010BZ-HM80520827-81WDH  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

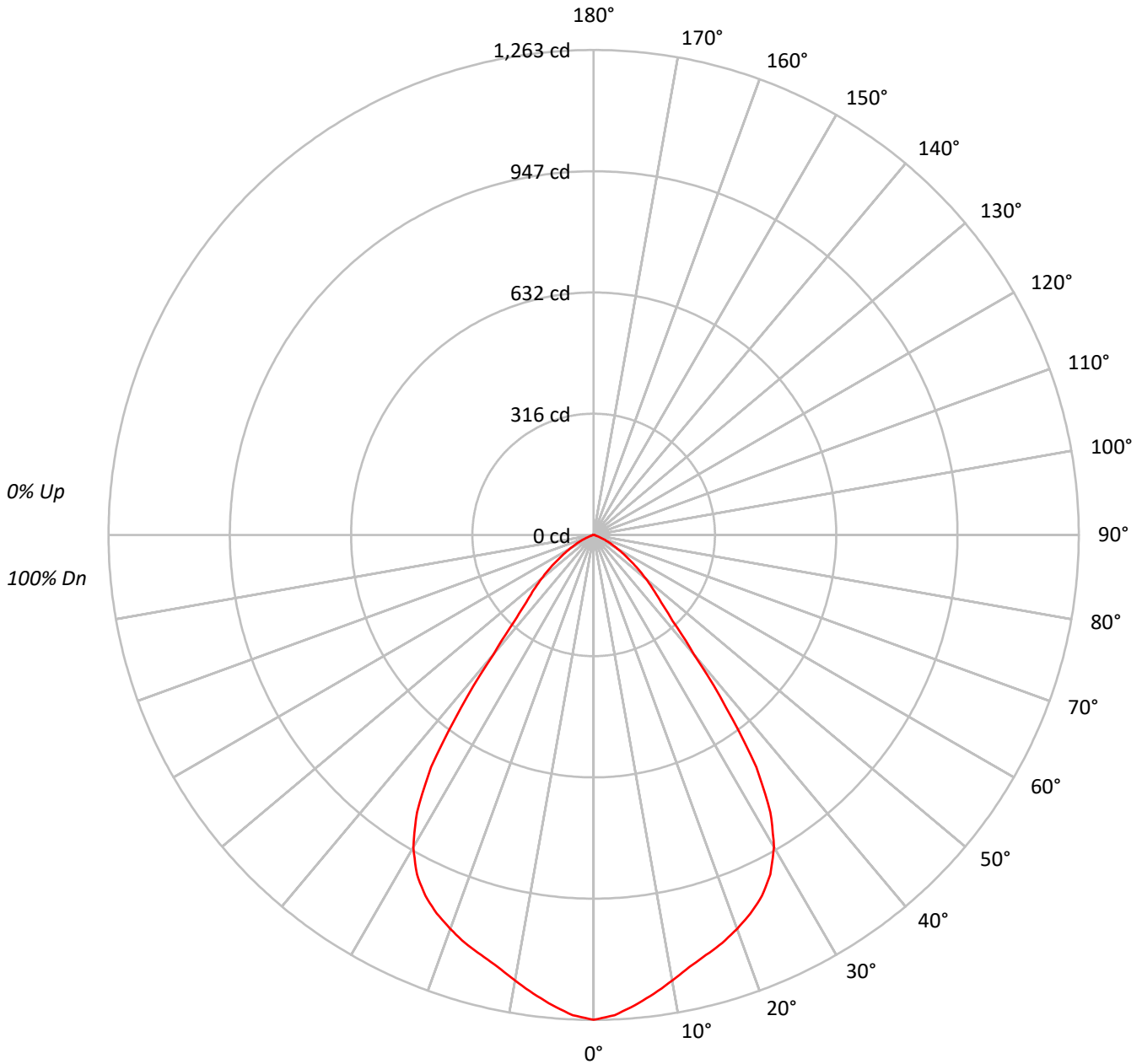
Lumens per Lamp: N/A  
Luminaire Lumens: 1700.8 lumens  
Efficiency: N/A  
Efficacy: 121.5 lumens/watt  
Spacing Criteria (0/90/45): 1.12 / 1.12 / 1.06  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

Input Watts (W): 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: P583842  
CATALOG NUMBER: HCC8S15D010BZ-HM80520827-81WDH

### Luminous Intensity Polar Plot



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



TEST NUMBER: P583842

CATALOG NUMBER: HCC8S15D010BZ-HM80520827-81WDH

**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	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°	38937
5°	38061
10°	36892
15°	36148
20°	35821
25°	35286
30°	33428
35°	27770
40°	16355
45°	10819
50°	8515
55°	6263
60°	4354
65°	2656
70°	1154
75°	500
80°	391
85°	0



TEST NUMBER: P583842  
 CATALOG NUMBER: HCC8S15D010BZ-HM80520827-81WDH

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	115.8	6.8
10°-20°	320.1	18.8
20°-30°	474.3	27.9
30°-40°	438.2	25.8
40°-50°	202.1	11.9
50°-60°	106.3	6.2
60°-70°	37.6	2.2
70°-80°	5.9	0.3
80°-90°	0.6	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°	910.2	53.5
0°-40°	1348.4	79.3
0°-60°	1656.7	97.4
0°-90°	1700.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1700.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1263	
5°	1230	116
15°	1132	320
25°	1037	474
35°	738	438
45°	248	202
55°	116	106
65°	36	38
75°	4	6
85°	0	1
90°	0	



TEST NUMBER: P583842  
CATALOG NUMBER: HCC8S15D010BZ-HM80520827-81WDH

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1262.7
2.5°	1252.0
5°	1229.6
7.5°	1205.0
10°	1178.2
12.5°	1152.6
15°	1132.3
17.5°	1114.1
20°	1091.6
22.5°	1067.0
25°	1037.1
27.5°	996.5
30°	938.8
32.5°	856.4
35°	737.7
37.5°	566.7
40°	406.3
42.5°	304.7
45°	248.1
47.5°	210.6
50°	177.5
52.5°	145.4
55°	116.5
57.5°	91.9
60°	70.6
62.5°	53.5
65°	36.4
67.5°	21.3
70°	12.8
72.5°	7.5
75°	4.2
77.5°	3.3
80°	2.2
82.5°	1.1
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)