

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: P583723

Luminaire Tested: **HCC8W10D010BZ-HM80520830-81WDH**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P583723  
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: HCC8W10D010BZ-HM80520830-81WDH  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

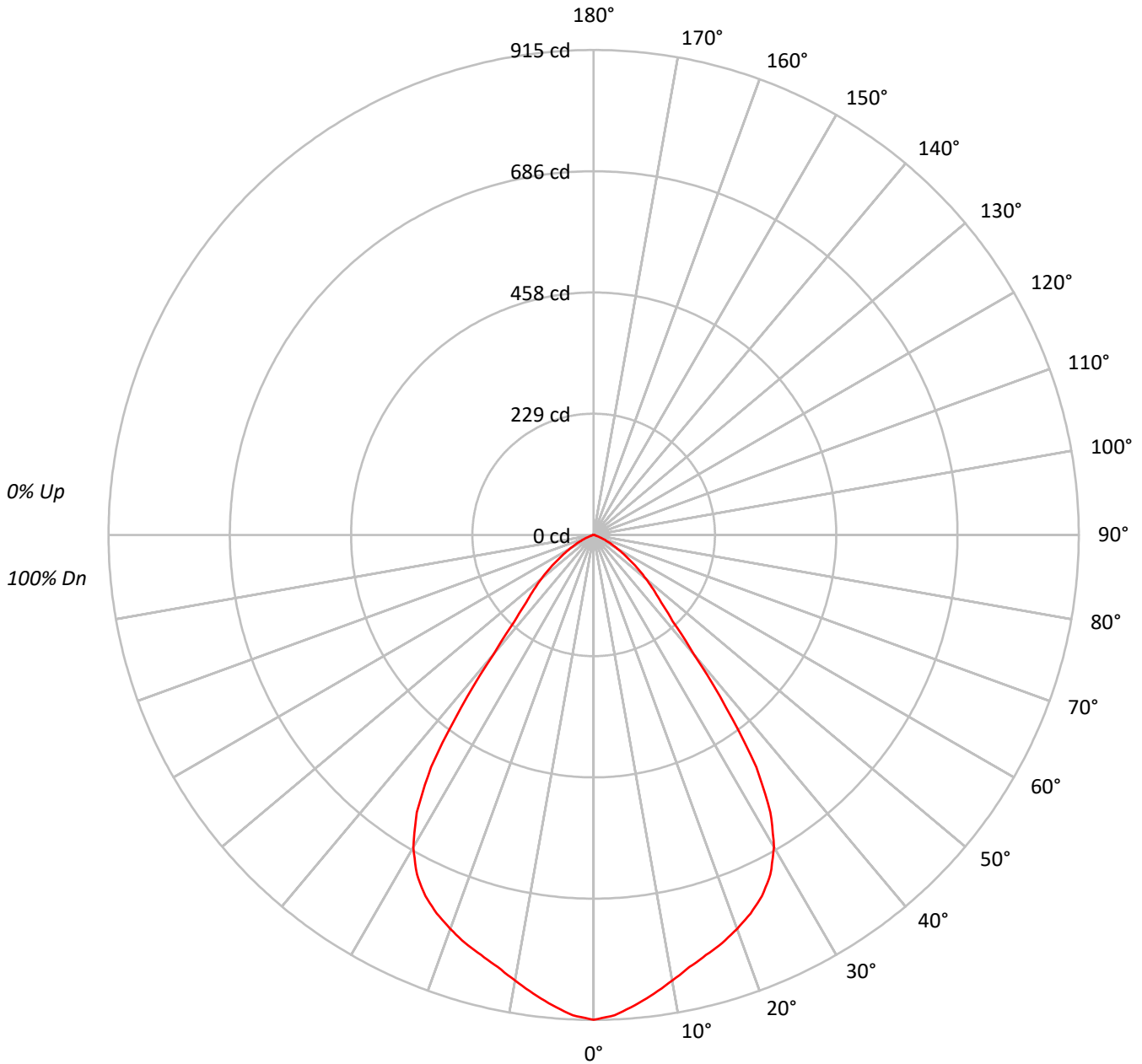
Lumens per Lamp: N/A  
Luminaire Lumens: 1232.3 lumens  
Efficiency: N/A  
Efficacy: 124.5 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.13 / 1.06  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

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: P583723  
CATALOG NUMBER: HCC8W10D010BZ-HM80520830-81WDH

### Luminous Intensity Polar Plot





TEST NUMBER: P583723  
 CATALOG NUMBER: HCC8W10D010BZ-HM80520830-81WDH

**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°	28209
5°	27577
10°	26731
15°	26191
20°	25954
25°	25569
30°	24220
35°	20121
40°	11851
45°	7837
50°	6169
55°	4537
60°	3151
65°	1919
70°	838
75°	369
80°	284
85°	0



TEST NUMBER: P583723  
 CATALOG NUMBER: HCC8W10D010BZ-HM80520830-81WDH

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	83.9	6.8
10°-20°	231.9	18.8
20°-30°	343.6	27.9
30°-40°	317.5	25.8
40°-50°	146.4	11.9
50°-60°	77.0	6.2
60°-70°	27.2	2.2
70°-80°	4.3	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°	659.5	53.5
0°-40°	977.0	79.3
0°-60°	1200.4	97.4
0°-90°	1232.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1232.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	915	
5°	891	84
15°	820	232
25°	752	344
35°	534	318
45°	180	146
55°	84	77
65°	26	27
75°	3	4
85°	0	0
90°	0	



TEST NUMBER: P583723

CATALOG NUMBER: HCC8W10D010BZ-HM80520830-81WDH

**CANDELA DISTRIBUTION (FULL):**

0°	
0°	914.8
2.5°	907.1
5°	890.9
7.5°	873.0
10°	853.7
12.5°	835.1
15°	820.4
17.5°	807.3
20°	790.9
22.5°	773.1
25°	751.5
27.5°	722.0
30°	680.2
32.5°	620.5
35°	534.5
37.5°	410.6
40°	294.4
42.5°	220.8
45°	179.7
47.5°	152.7
50°	128.6
52.5°	105.4
55°	84.4
57.5°	66.6
60°	51.1
62.5°	38.7
65°	26.3
67.5°	15.5
70°	9.3
72.5°	5.4
75°	3.1
77.5°	2.3
80°	1.6
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)