

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: P583776

Luminaire Tested: **HCC8W10D010BZ-HM80520927-81WDWB**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P583776  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-10)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 10/21/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC8W10D010BZ-HM80520927-81WDWB  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, WHITE BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

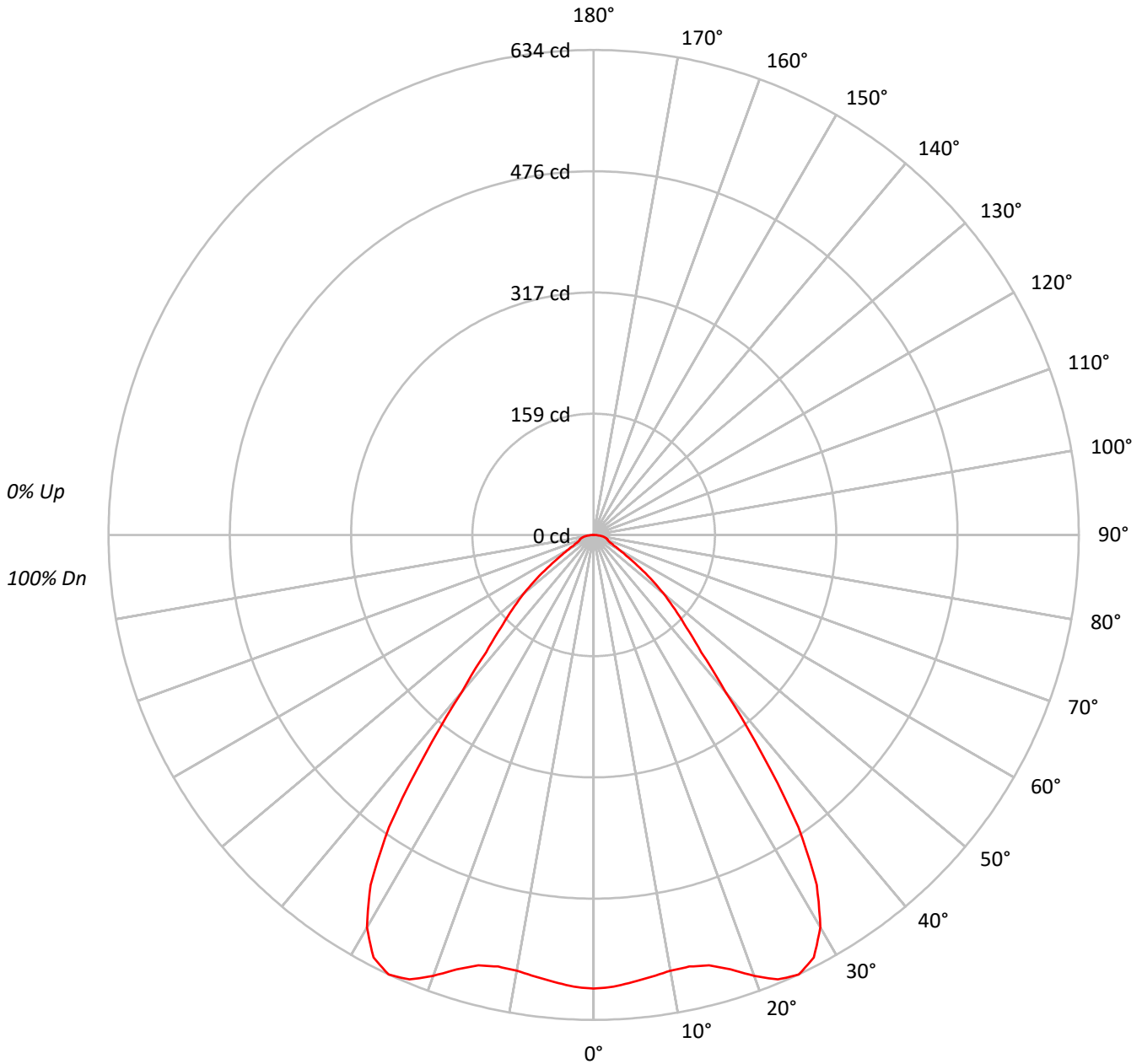
Lumens per Lamp: N/A  
Luminaire Lumens: 1041.4 lumens  
Efficiency: N/A  
Efficacy: 105.2 lumens/watt  
Spacing Criteria (0/90/45): 1.32 / 1.32 / 1.14  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

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: P583776  
CATALOG NUMBER: HCC8W10D010BZ-HM80520927-81WDWB

### Luminous Intensity Polar Plot





TEST NUMBER: P583776

CATALOG NUMBER: HCC8W10D010BZ-HM80520927-81WDWB

**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
1	112	108	105	103	109	106	103	101	102	100	98	98	97	95	95	93	92	90			90
2	105	99	94	89	102	97	92	88	93	90	86	90	87	84	88	85	83	81			81
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73			73
4	92	82	75	70	90	81	75	70	79	73	69	77	72	68	75	71	67	65			65
5	86	75	68	63	84	74	68	63	73	67	62	71	66	62	69	65	61	59			59
6	80	69	62	57	79	69	62	57	67	61	56	65	60	56	64	59	56	54			54
7	75	64	57	52	74	63	57	52	62	56	51	61	55	51	59	55	51	49			49
8	71	59	52	47	69	59	52	47	58	51	47	56	51	47	55	50	47	45			45
9	67	55	48	43	65	55	48	43	54	47	43	53	47	43	52	47	43	41			41
10	63	51	45	40	62	51	44	40	50	44	40	49	44	40	48	43	40	38			38

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

	0°
0°	18289
5°	18164
10°	18114
15°	18593
20°	20129
25°	21578
30°	21097
35°	17565
40°	10788
45°	7475
50°	5704
55°	3742
60°	2344
65°	1751
70°	1767
75°	2037
80°	2237
85°	1981



TEST NUMBER: P583776  
 CATALOG NUMBER: HCC8W10D010BZ-HM80520927-81WDWB

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	55.8	5.4
10°-20°	167.2	16.1
20°-30°	287.8	27.6
30°-40°	278.8	26.8
40°-50°	137.3	13.2
50°-60°	64.8	6.2
60°-70°	25.5	2.5
70°-80°	17.6	1.7
80°-90°	6.5	0.6
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°	510.7	49.0
0°-40°	789.5	75.8
0°-60°	991.7	95.2
0°-90°	1041.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1041.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	593	
5°	587	56
15°	582	167
25°	634	288
35°	467	279
45°	171	137
55°	70	65
65°	24	26
75°	17	18
85°	6	7
90°	0	



TEST NUMBER: P583776  
CATALOG NUMBER: HCC8W10D010BZ-HM80520927-81WDWB

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	593.1
2.5°	591.3
5°	586.8
7.5°	582.4
10°	578.5
12.5°	577.9
15°	582.4
17.5°	595.6
20°	613.4
22.5°	629.1
25°	634.2
27.5°	622.9
30°	592.5
32.5°	542.5
35°	466.6
37.5°	362.3
40°	268.0
42.5°	208.1
45°	171.4
47.5°	144.1
50°	118.9
52.5°	93.6
55°	69.6
57.5°	50.6
60°	38.0
62.5°	29.7
65°	24.0
67.5°	20.9
70°	19.6
72.5°	18.4
75°	17.1
77.5°	15.1
80°	12.6
82.5°	9.5
85°	5.6
87.5°	2.5
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)