

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: P584061

Luminaire Tested: **HCC8S20D010BZ-HM80520930-81WDWB**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P584061  
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: HCC8S20D010BZ-HM80520930-81WDWB  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, WHITE BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

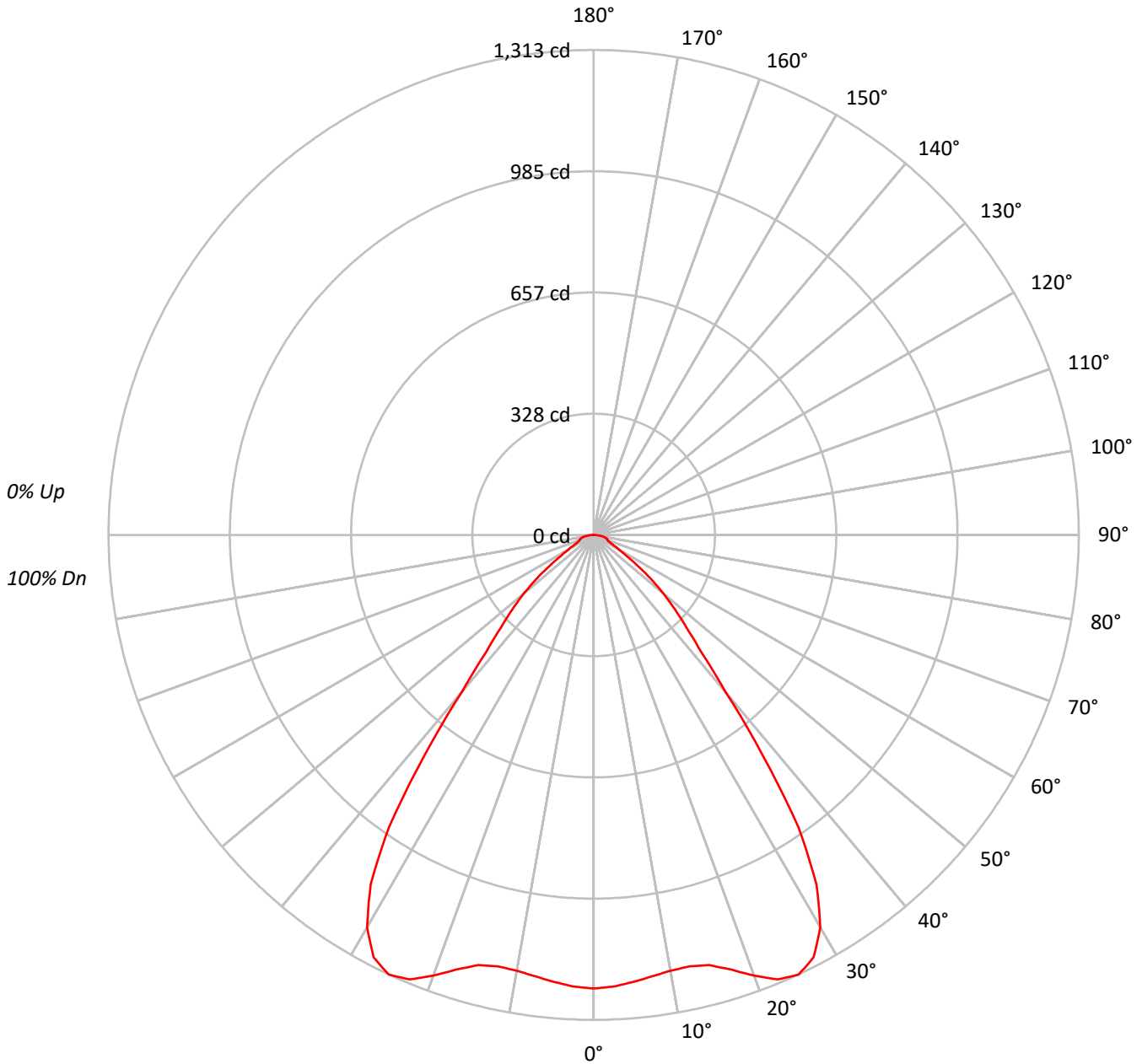
Lumens per Lamp: N/A  
Luminaire Lumens: 2155.9 lumens  
Efficiency: N/A  
Efficacy: 107.8 lumens/watt  
Spacing Criteria (0/90/45): 1.32 / 1.32 / 1.14  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

Input Watts (W): 20  
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: P584061  
CATALOG NUMBER: HCC8S20D010BZ-HM80520930-81WDWB

### Luminous Intensity Polar Plot





TEST NUMBER: P584061  
 CATALOG NUMBER: HCC8S20D010BZ-HM80520930-81WDWB

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20									20									20									20									
RC	80									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	112	108	105	103	109	106	103	101	102	100	98	98	97	95	95	93	92	90																			
2	105	99	94	89	102	97	92	88	93	90	86	90	87	84	88	85	83	81																			
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73																			
4	92	82	75	70	90	81	75	70	79	73	69	77	72	68	75	71	67	65																			
5	86	75	68	63	84	74	68	63	73	67	62	71	66	62	69	65	61	59																			
6	80	69	62	57	79	69	62	57	67	61	56	65	60	56	64	59	56	54																			
7	75	64	57	52	74	63	57	52	62	56	51	61	55	51	59	55	51	49																			
8	71	59	52	47	69	59	52	47	58	51	47	56	51	47	55	50	47	45																			
9	67	55	48	43	65	55	48	43	54	47	43	53	47	43	52	47	43	41																			
10	63	51	45	40	62	51	44	40	50	44	40	49	44	40	48	43	40	38																			

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

	0°
0°	37864
5°	37606
10°	37506
15°	38488
20°	41669
25°	44674
30°	43675
35°	36364
40°	22345
45°	15468
50°	11806
55°	7742
60°	4847
65°	3634
70°	3651
75°	4206
80°	4653
85°	4175



TEST NUMBER: P584061  
 CATALOG NUMBER: HCC8S20D010BZ-HM80520930-81WDWB

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	115.4	5.4
10°-20°	346.1	16.1
20°-30°	595.8	27.6
30°-40°	577.2	26.8
40°-50°	284.3	13.2
50°-60°	134.2	6.2
60°-70°	52.9	2.5
70°-80°	36.4	1.7
80°-90°	13.5	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°	1057.4	49.0
0°-40°	1634.6	75.8
0°-60°	2053.1	95.2
0°-90°	2155.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2155.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1228	
5°	1215	115
15°	1206	346
25°	1313	596
35°	966	577
45°	355	284
55°	144	134
65°	50	53
75°	35	36
85°	12	14
90°	0	



TEST NUMBER: P584061  
CATALOG NUMBER: HCC8S20D010BZ-HM80520930-81WDWB

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1227.9
2.5°	1224.0
5°	1214.9
7.5°	1205.6
10°	1197.8
12.5°	1196.5
15°	1205.6
17.5°	1233.2
20°	1269.8
22.5°	1302.6
25°	1313.0
27.5°	1289.4
30°	1226.6
32.5°	1123.1
35°	966.0
37.5°	750.1
40°	555.1
42.5°	430.7
45°	354.7
47.5°	298.5
50°	246.1
52.5°	193.7
55°	144.0
57.5°	104.7
60°	78.6
62.5°	61.6
65°	49.8
67.5°	43.1
70°	40.5
72.5°	37.9
75°	35.3
77.5°	31.4
80°	26.2
82.5°	19.6
85°	11.8
87.5°	5.2
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)