

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: P593653

Luminaire Tested: **HCC8S30D010BZ-HM82555850-81WDWB**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P593653  
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: HCC8S30D010BZ-HM82555850-81WDWB  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, WHITE BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

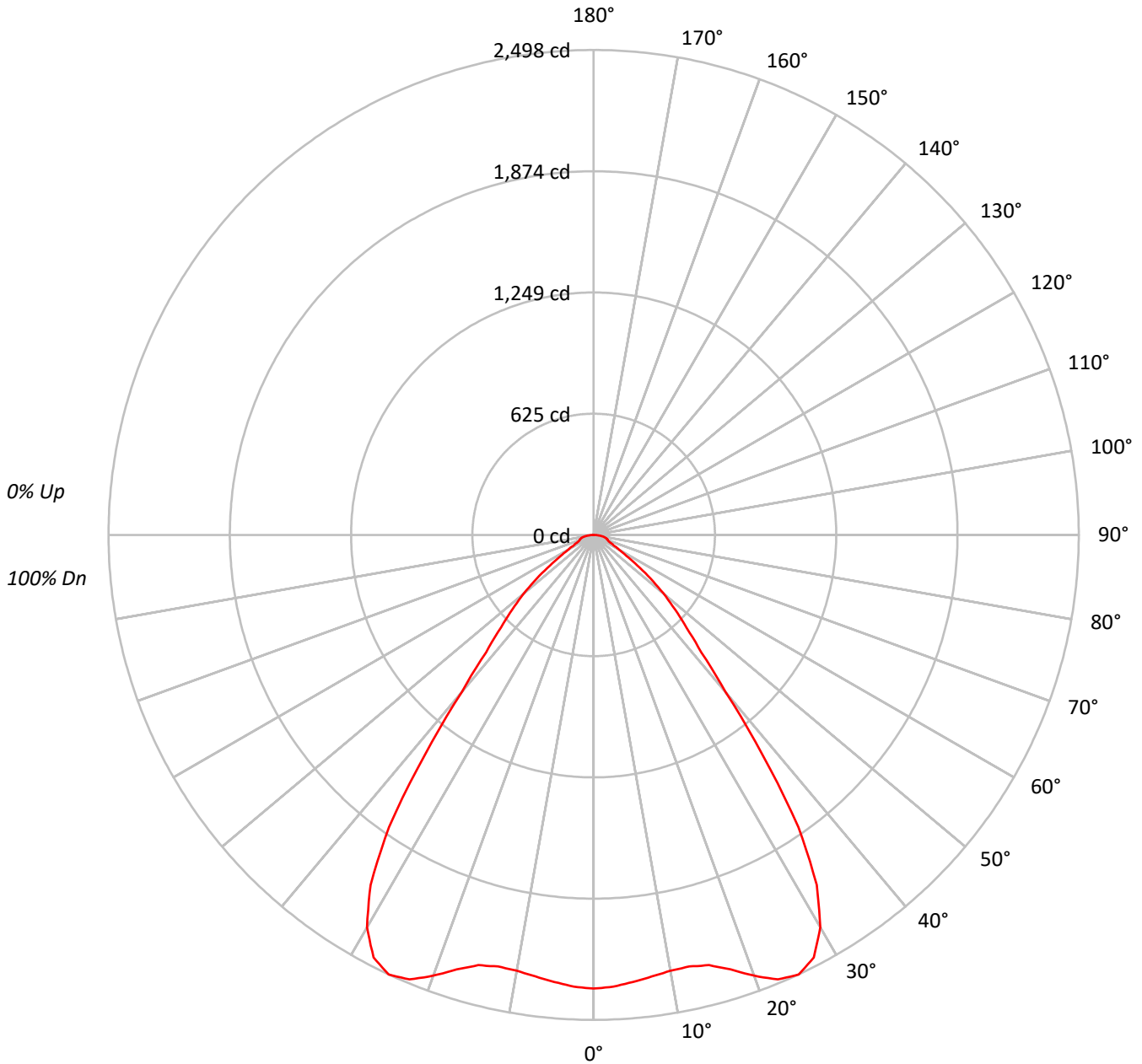
Lumens per Lamp: N/A  
Luminaire Lumens: 4102.5 lumens  
Efficiency: N/A  
Efficacy: 146.5 lumens/watt  
Spacing Criteria (0/90/45): 1.32 / 1.32 / 1.14  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

Input Watts (W): 28  
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: P593653  
CATALOG NUMBER: HCC8S30D010BZ-HM82555850-81WDWB

### Luminous Intensity Polar Plot





TEST NUMBER: P593653  
 CATALOG NUMBER: HCC8S30D010BZ-HM82555850-81WDWB

**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	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°	72049
5°	71550
10°	71366
15°	73240
20°	79288
25°	85006
30°	83106
35°	69201
40°	42516
45°	29436
50°	22466
55°	14725
60°	9220
65°	6902
70°	6960
75°	8018
80°	8843
85°	7961



TEST NUMBER: P593653  
 CATALOG NUMBER: HCC8S30D010BZ-HM82555850-81WDWB

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	219.6	5.4
10°-20°	658.6	16.1
20°-30°	1133.7	27.6
30°-40°	1098.4	26.8
40°-50°	541.1	13.2
50°-60°	255.3	6.2
60°-70°	100.6	2.5
70°-80°	69.4	1.7
80°-90°	25.8	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°	2012.0	49.0
0°-40°	3110.4	75.8
0°-60°	3906.7	95.2
0°-90°	4102.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4102.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2336	
5°	2312	220
15°	2294	659
25°	2498	1134
35°	1838	1098
45°	675	541
55°	274	255
65°	95	101
75°	67	69
85°	22	26
90°	0	



TEST NUMBER: P593653  
CATALOG NUMBER: HCC8S30D010BZ-HM82555850-81WDWB

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2336.5
2.5°	2329.0
5°	2311.5
7.5°	2294.2
10°	2279.2
12.5°	2276.7
15°	2294.2
17.5°	2346.5
20°	2416.2
22.5°	2478.5
25°	2498.4
27.5°	2453.6
30°	2334.0
32.5°	2137.2
35°	1838.3
37.5°	1427.3
40°	1056.2
42.5°	819.6
45°	675.0
47.5°	568.0
50°	468.3
52.5°	368.7
55°	273.9
57.5°	199.3
60°	149.5
62.5°	117.1
65°	94.6
67.5°	82.2
70°	77.2
72.5°	72.3
75°	67.3
77.5°	59.8
80°	49.8
82.5°	37.3
85°	22.5
87.5°	10.0
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)