

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: P584792

Luminaire Tested: **HCC8S50D010BZ-HM82555827-81WDWB**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P584792  
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: HCC8S50D010BZ-HM82555827-81WDWB  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, WHITE BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

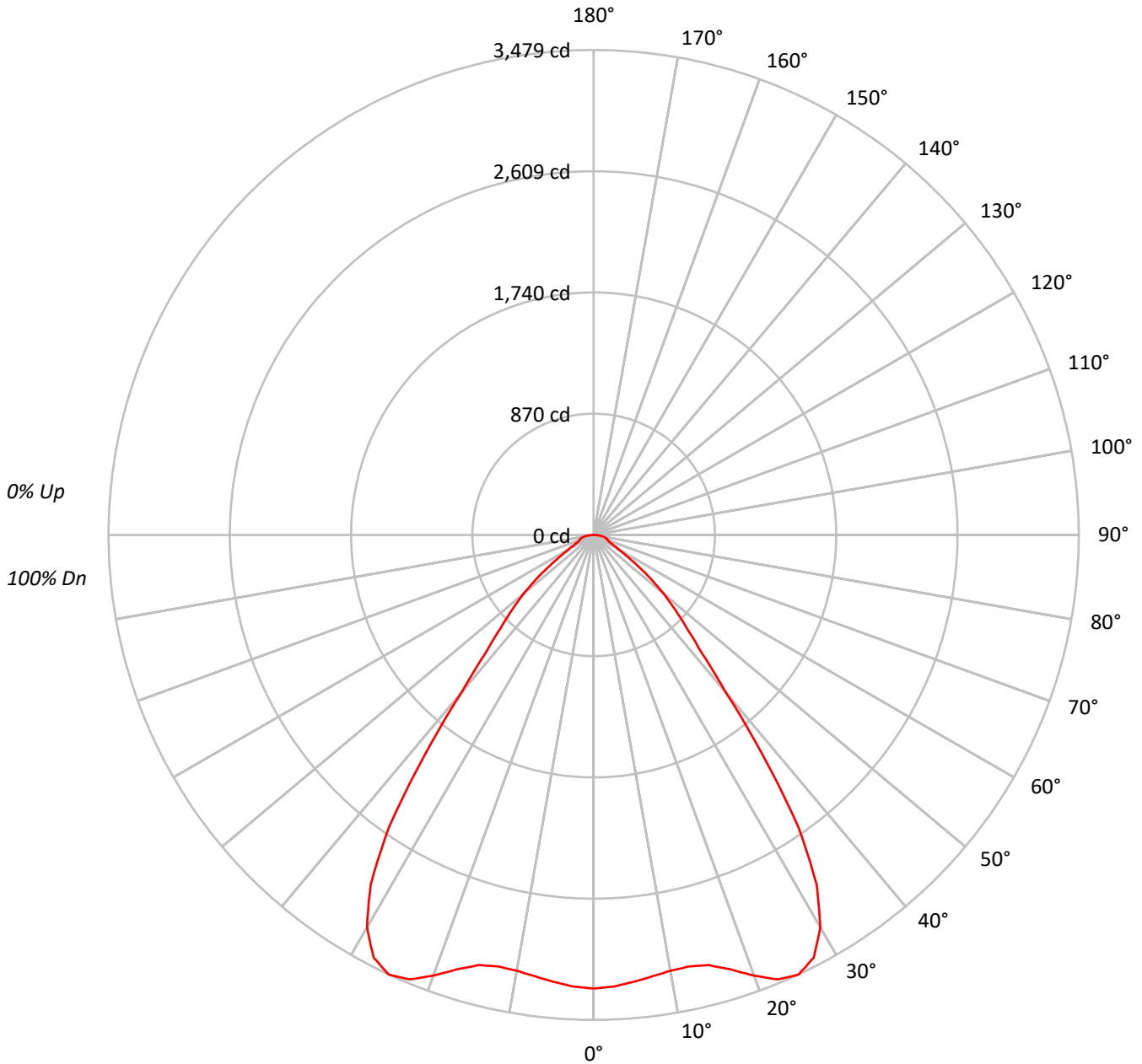
Lumens per Lamp: N/A  
Luminaire Lumens: 5713.1 lumens  
Efficiency: N/A  
Efficacy: 119.0 lumens/watt  
Spacing Criteria (0/90/45): 1.32 / 1.32 / 1.14  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

Input Watts (W): 48  
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: P584792  
CATALOG NUMBER: HCC8S50D010BZ-HM82555827-81WDWB

### Luminous Intensity Polar Plot





TEST NUMBER: P584792

CATALOG NUMBER: HCC8S50D010BZ-HM82555827-81WDWB

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

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

	0°
0°	100335
5°	99644
10°	99387
15°	101994
20°	110417
25°	118380
30°	115736
35°	96369
40°	59206
45°	40997
50°	31288
55°	20515
60°	12834
65°	9624
70°	9692
75°	11152
80°	12306
85°	11039



TEST NUMBER: P584792  
 CATALOG NUMBER: HCC8S50D010BZ-HM82555827-81WDWB

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	305.9	5.4
10°-20°	917.1	16.1
20°-30°	1578.9	27.6
30°-40°	1529.7	26.8
40°-50°	753.5	13.2
50°-60°	355.5	6.2
60°-70°	140.1	2.5
70°-80°	96.6	1.7
80°-90°	35.8	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°	2801.9	49.0
0°-40°	4331.5	75.8
0°-60°	5440.5	95.2
0°-90°	5713.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5713.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3254	
5°	3219	306
15°	3195	917
25°	3479	1579
35°	2560	1530
45°	940	753
55°	382	356
65°	132	140
75°	94	97
85°	31	36
90°	0	



TEST NUMBER: P584792

CATALOG NUMBER: HCC8S50D010BZ-HM82555827-81WDWB

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3253.8
2.5°	3243.4
5°	3219.1
7.5°	3194.9
10°	3174.1
12.5°	3170.6
15°	3194.9
17.5°	3267.7
20°	3364.8
22.5°	3451.6
25°	3479.3
27.5°	3416.9
30°	3250.4
32.5°	2976.3
35°	2560.0
37.5°	1987.7
40°	1470.8
42.5°	1141.3
45°	940.1
47.5°	790.9
50°	652.2
52.5°	513.4
55°	381.6
57.5°	277.5
60°	208.1
62.5°	163.1
65°	131.9
67.5°	114.4
70°	107.5
72.5°	100.7
75°	93.6
77.5°	83.2
80°	69.3
82.5°	52.0
85°	31.2
87.5°	13.9
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)