

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: P593797

Luminaire Tested: **HCC8S50D010BZ-HM82555850-81NDW**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P593797  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-3)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 10/21/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC8S50D010BZ-HM82555850-81NDW  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" NARROW DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

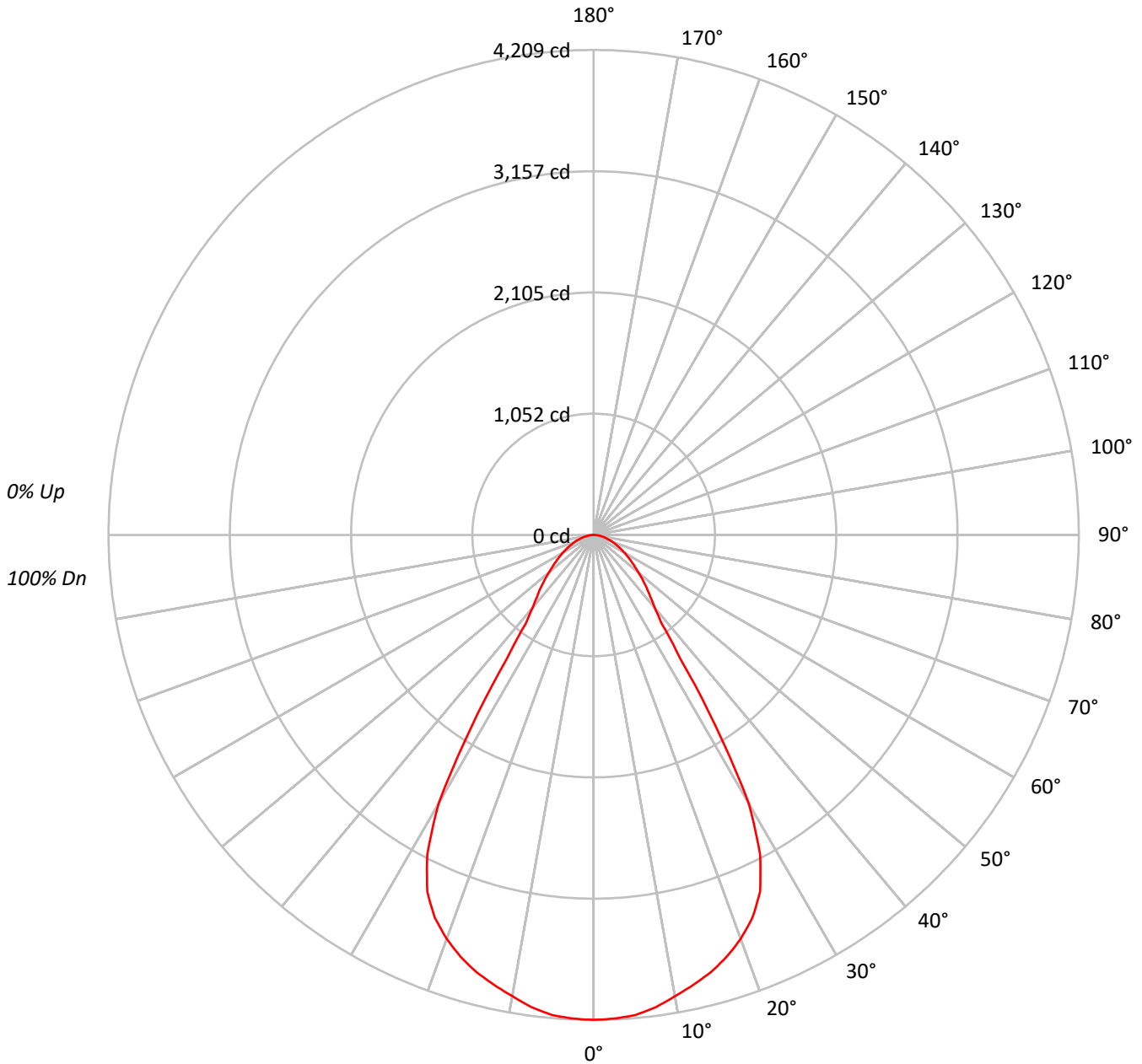
Lumens per Lamp: N/A  
Luminaire Lumens: 5207.1 lumens  
Efficiency: N/A  
Efficacy: 108.5 lumens/watt  
Spacing Criteria (0/90/45): 1.06 / 1.06 / 0.92  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

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: P593797  
CATALOG NUMBER: HCC8S50D010BZ-HM82555850-81NDW

### Luminous Intensity Polar Plot





TEST NUMBER: P593797

CATALOG NUMBER: HCC8S50D010BZ-HM82555850-81NDW

**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	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90
2	105	99	94	90	102	97	92	88	94	90	87	91	87	85	88	85	83	81
3	98	90	84	79	96	89	83	79	86	81	77	84	80	76	81	78	75	73
4	92	83	76	71	90	82	76	71	80	74	70	77	73	69	75	72	68	67
5	87	77	70	65	85	76	69	64	74	68	64	72	67	63	70	66	63	61
6	82	71	64	59	80	70	64	59	69	63	58	67	62	58	66	61	58	56
7	77	66	59	54	76	66	59	54	64	58	54	63	58	54	62	57	53	52
8	73	62	55	50	71	61	55	50	60	54	50	59	54	50	58	53	49	48
9	69	58	51	47	68	57	51	47	56	51	46	55	50	46	55	50	46	45
10	65	55	48	44	64	54	48	44	53	47	43	52	47	43	52	47	43	42

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

	0°
0°	129793
5°	129447
10°	127286
15°	125430
20°	122421
25°	116209
30°	95853
35°	49348
40°	33040
45°	28328
50°	24447
55°	21333
60°	18952
65°	17030
70°	15426
75°	13904
80°	12431
85°	12383



TEST NUMBER: P593797  
 CATALOG NUMBER: HCC8S50D010BZ-HM82555850-81NDW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	395.4	7.6
10°-20°	1105.4	21.2
20°-30°	1531.6	29.4
30°-40°	919.9	17.7
40°-50°	503.6	9.7
50°-60°	357.8	6.9
60°-70°	232.2	4.5
70°-80°	124.1	2.4
80°-90°	37.0	0.7
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°	3032.4	58.2
0°-40°	3952.4	75.9
0°-60°	4813.7	92.4
0°-90°	5207.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5207.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4209	
5°	4182	395
15°	3929	1105
25°	3416	1532
35°	1311	920
45°	650	504
55°	397	358
65°	233	232
75°	117	124
85°	35	37
90°	0	



TEST NUMBER: P593797  
CATALOG NUMBER: HCC8S50D010BZ-HM82555850-81NDW

**CANDELA DISTRIBUTION (FULL):**

0°	
0°	4209.1
2.5°	4201.3
5°	4181.9
7.5°	4135.1
10°	4065.1
12.5°	3999.0
15°	3929.0
17.5°	3839.5
20°	3730.6
22.5°	3598.3
25°	3415.5
27.5°	3127.7
30°	2692.0
32.5°	1972.2
35°	1310.9
37.5°	968.6
40°	820.8
42.5°	727.5
45°	649.6
47.5°	575.7
50°	509.6
52.5°	447.4
55°	396.8
57.5°	350.1
60°	307.3
62.5°	268.4
65°	233.4
67.5°	198.4
70°	171.1
72.5°	140.0
75°	116.7
77.5°	93.4
80°	70.0
82.5°	50.6
85°	35.0
87.5°	15.5
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)