

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: P593791

Luminaire Tested: **HCC8W50D010BZ-HM82555850-81NDH**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P593791  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-2)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 10/21/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC8W50D010BZ-HM82555850-81NDH  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" NARROW DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

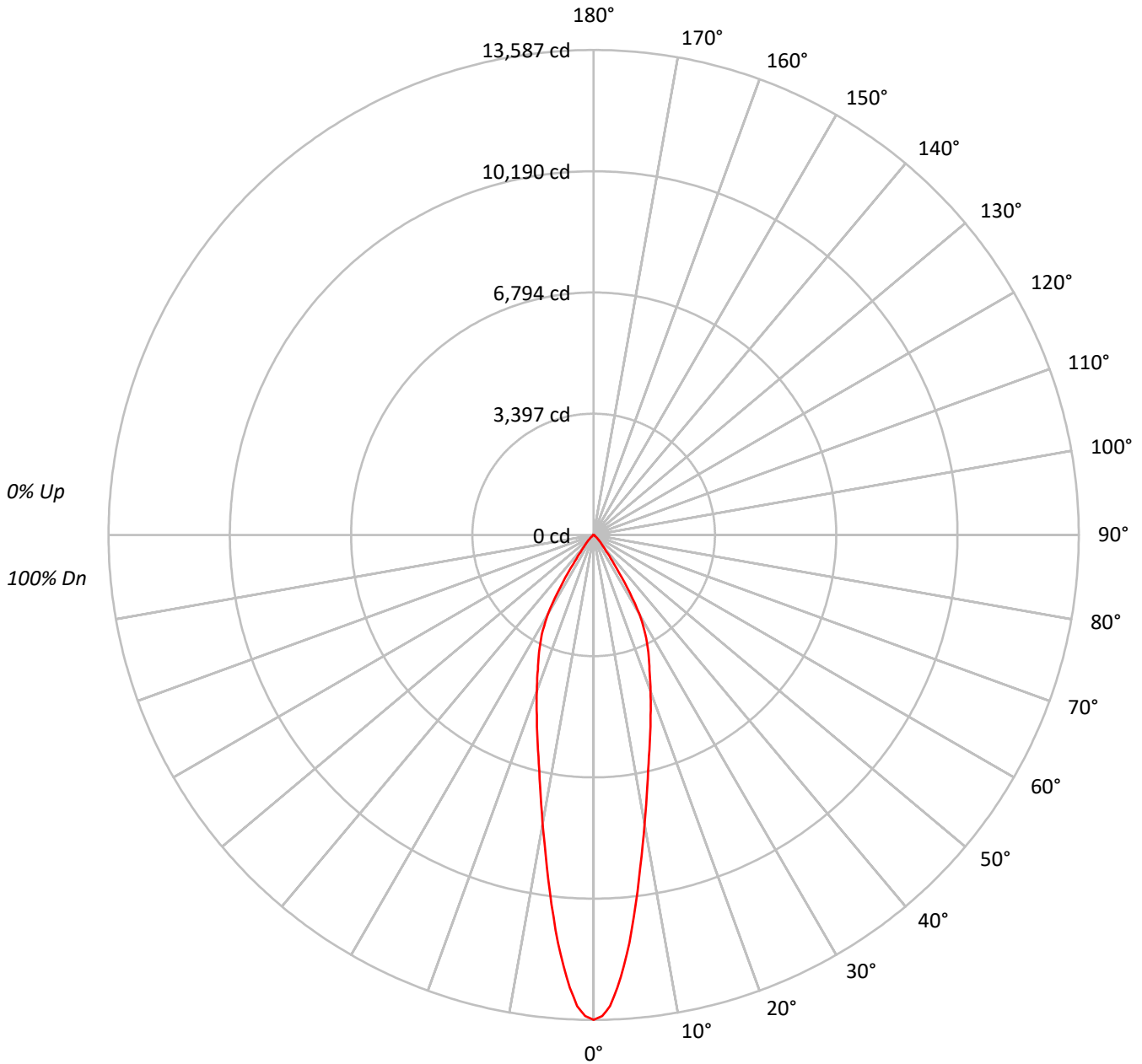
Lumens per Lamp: N/A  
Luminaire Lumens: 5265.5 lumens  
Efficiency: N/A  
Efficacy: 109.7 lumens/watt  
Spacing Criteria (0/90/45): 0.42 / 0.42 / 0.57  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

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: P593791  
CATALOG NUMBER: HCC8W50D010BZ-HM82555850-81NDH

### Luminous Intensity Polar Plot





TEST NUMBER: P593791

CATALOG NUMBER: HCC8W50D010BZ-HM82555850-81NDH

**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	114	112	109	107	112	109	107	106	105	104	102	102	100	99	98	97	96	95	95	95	95
2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	92	91	89	89	89	89
3	104	99	94	91	102	97	93	90	95	91	88	92	90	87	90	88	86	84	84	84	84
4	100	93	88	84	98	92	87	84	90	86	83	88	85	82	86	83	81	80	80	80	80
5	96	88	83	79	94	87	82	79	86	81	78	84	80	77	82	79	77	75	75	75	75
6	92	84	78	75	90	83	78	74	81	77	74	80	76	73	79	76	73	72	72	72	72
7	88	80	74	70	87	79	74	70	78	73	70	77	73	70	76	72	69	68	68	68	68
8	84	76	71	67	83	75	70	67	74	70	66	73	69	66	72	69	66	65	65	65	65
9	81	72	67	64	80	72	67	63	71	66	63	70	66	63	69	66	63	62	62	62	62
10	78	69	64	61	77	69	64	61	68	63	60	67	63	60	67	63	60	59	59	59	59

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

	0°
0°	418976
5°	354960
10°	257541
15°	193403
20°	152601
25°	123089
30°	91214
35°	36955
40°	15586
45°	8356
50°	3751
55°	1892
60°	1203
65°	854
70°	703
75°	465
80°	693
85°	1380



TEST NUMBER: P593791  
 CATALOG NUMBER: HCC8W50D010BZ-HM82555850-81NDH

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	984.6	18.7
10°-20°	1701.5	32.3
20°-30°	1645.1	31.2
30°-40°	722.6	13.7
40°-50°	156.2	3.0
50°-60°	35.1	0.7
60°-70°	12.0	0.2
70°-80°	4.6	0.1
80°-90°	3.7	0.1
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°	4331.2	82.3
0°-40°	5053.8	96.0
0°-60°	5245.1	99.6
0°-90°	5265.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5265.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	13587	
5°	11467	985
15°	6058	1702
25°	3618	1645
35°	982	723
45°	192	156
55°	35	35
65°	12	12
75°	4	5
85°	4	4
90°	0	



TEST NUMBER: P593791

CATALOG NUMBER: HCC8W50D010BZ-HM82555850-81NDH

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	13587.1
1°	13485.4
2°	13207.7
3°	12707.0
4°	12108.7
5°	11467.3
6°	10767.2
7°	10063.2
8°	9402.3
9°	8788.2
10°	8225.0
11°	7693.1
12°	7215.9
13°	6781.8
14°	6398.5
15°	6058.2
17.5°	5295.6
20°	4650.3
22.5°	4083.2
25°	3617.7
27.5°	3144.5
30°	2561.7
32.5°	1740.4
35°	981.7
37.5°	578.9
40°	387.2
42.5°	273.8
45°	191.6
47.5°	125.2
50°	78.2
52.5°	46.9
55°	35.2
57.5°	27.4
60°	19.5
62.5°	15.7
65°	11.7
67.5°	7.8
70°	7.8
72.5°	3.9
75°	3.9
77.5°	3.9
80°	3.9
82.5°	3.9

Classified  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



TEST NUMBER: P593791  
CATALOG NUMBER: HCC8W50D010BZ-HM82555850-81NDH

**CANDELA DISTRIBUTION (continued):**

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



85°	3.9
87.5°	3.9

Classified  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



(END OF REPORT)