

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: P584851

Luminaire Tested: **HCC8S50D010BZ-HM82555927-81NDH**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P584851  
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: HCC8S50D010BZ-HM82555927-81NDH  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" NARROW DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

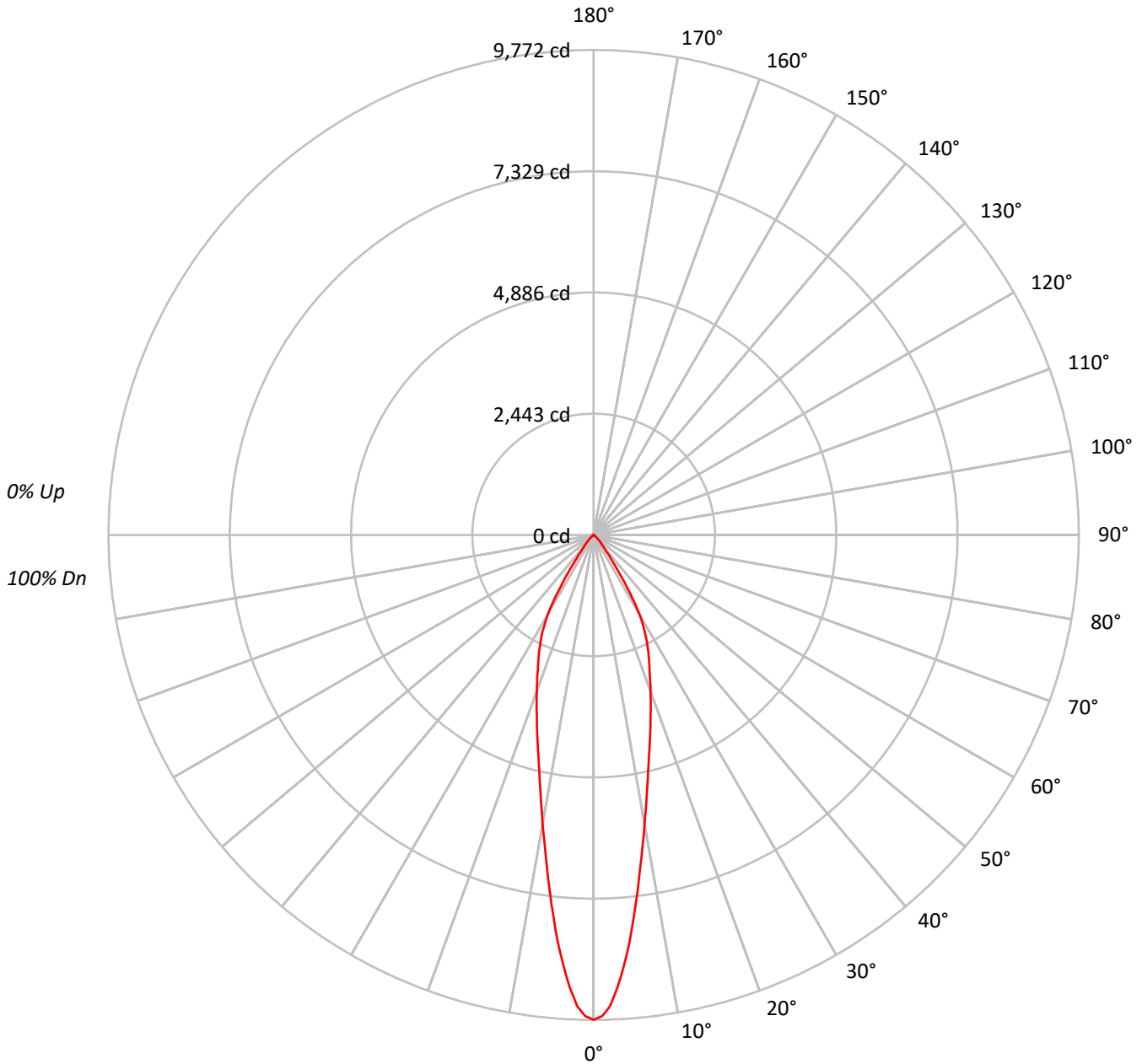
Lumens per Lamp: N/A  
Luminaire Lumens: 3786.9 lumens  
Efficiency: N/A  
Efficacy: 78.9 lumens/watt  
Spacing Criteria (0/90/45): 0.42 / 0.42 / 0.57  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

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: P584851  
CATALOG NUMBER: HCC8S50D010BZ-HM82555927-81NDH

### Luminous Intensity Polar Plot





TEST NUMBER: P584851

CATALOG NUMBER: HCC8S50D010BZ-HM82555927-81NDH

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

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

	0°
0°	301326
5°	255288
10°	185223
15°	139097
20°	109751
25°	88524
30°	65605
35°	26581
40°	11211
45°	6009
50°	2696
55°	1366
60°	863
65°	613
70°	505
75°	334
80°	497
85°	991



TEST NUMBER: P584851  
 CATALOG NUMBER: HCC8S50D010BZ-HM82555927-81NDH

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	708.1	18.7
10°-20°	1223.8	32.3
20°-30°	1183.2	31.2
30°-40°	519.7	13.7
40°-50°	112.3	3.0
50°-60°	25.2	0.7
60°-70°	8.6	0.2
70°-80°	3.3	0.1
80°-90°	2.7	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°	3115.0	82.3
0°-40°	3634.7	96.0
0°-60°	3772.3	99.6
0°-90°	3786.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3786.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	9772	
5°	8247	708
15°	4357	1224
25°	2602	1183
35°	706	520
45°	138	112
55°	25	25
65°	8	9
75°	3	3
85°	3	3
90°	0	



TEST NUMBER: P584851  
CATALOG NUMBER: HCC8S50D010BZ-HM82555927-81NDH

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	9771.8
1°	9698.7
2°	9498.9
3°	9138.9
4°	8708.6
5°	8247.3
6°	7743.8
7°	7237.5
8°	6762.1
9°	6320.4
10°	5915.4
11°	5532.9
12°	5189.7
13°	4877.4
14°	4601.8
15°	4357.1
17.5°	3808.6
20°	3344.5
22.5°	2936.6
25°	2601.8
27.5°	2261.5
30°	1842.5
32.5°	1251.8
35°	706.1
37.5°	416.3
40°	278.5
42.5°	196.9
45°	137.8
47.5°	90.0
50°	56.2
52.5°	33.8
55°	25.4
57.5°	19.6
60°	14.0
62.5°	11.2
65°	8.4
67.5°	5.6
70°	5.6
72.5°	2.8
75°	2.8
77.5°	2.8
80°	2.8
82.5°	2.8

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

Scaled Data Report



TEST NUMBER: P584851  
CATALOG NUMBER: HCC8S50D010BZ-HM82555927-81NDH

**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°	2.8
87.5°	2.8

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

Scaled Data Report



(END OF REPORT)