

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: P593807

Luminaire Tested: **HCC8W50D010BZ-HM82555950-81MDH**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P593807  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-5)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 10/21/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC8W50D010BZ-HM82555950-81MDH  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" MEDIUM DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

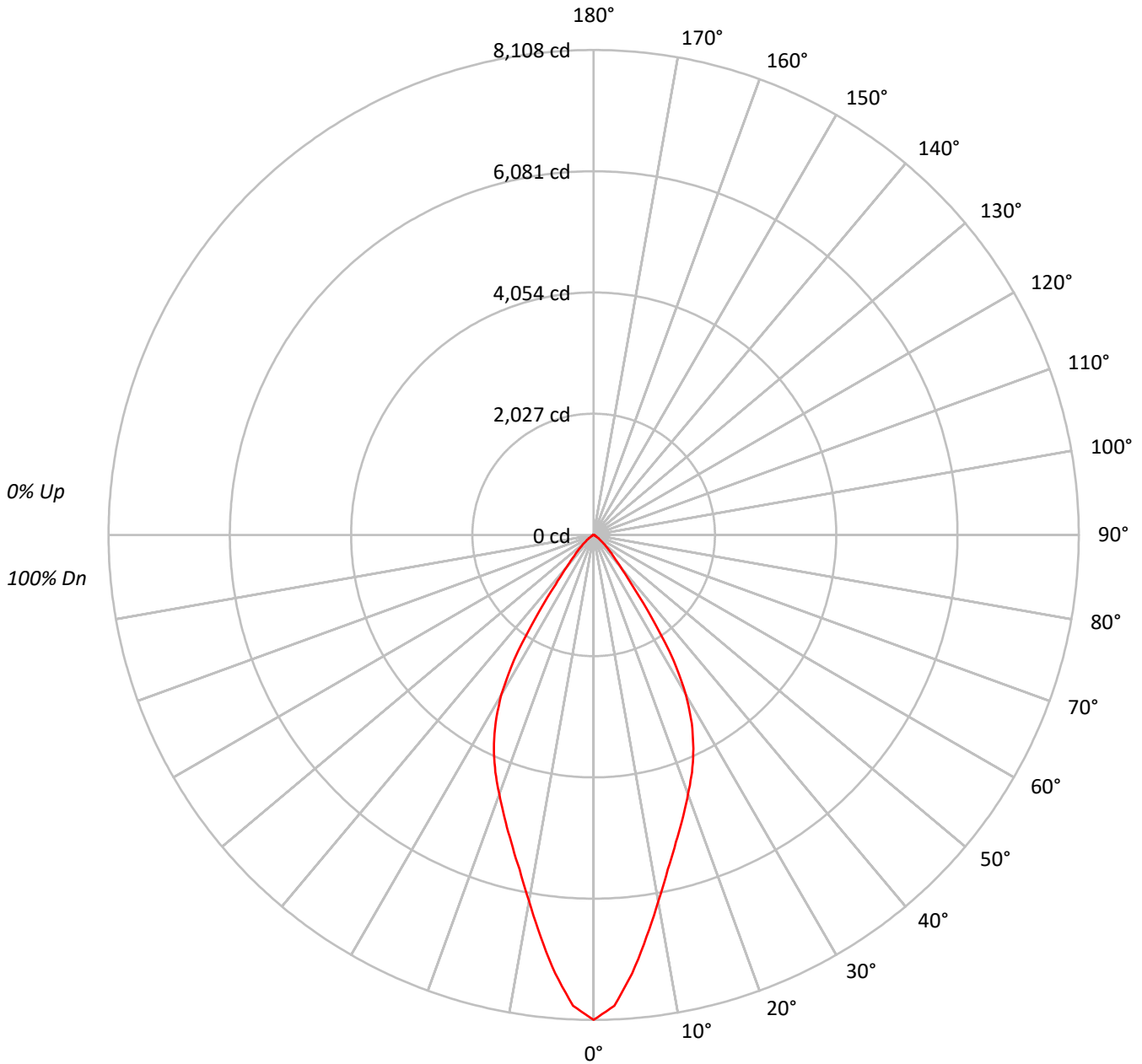
Lumens per Lamp: N/A  
Luminaire Lumens: 5466.8 lumens  
Efficiency: N/A  
Efficacy: 113.9 lumens/watt  
Spacing Criteria (0/90/45): 0.68 / 0.68 / 0.81  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

Input Watts (W): 48  
Input Voltage (V): NR  
Input Current (Ain): 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: P593807  
CATALOG NUMBER: HCC8W50D010BZ-HM82555950-81MDH

### Luminous Intensity Polar Plot



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



TEST NUMBER: P593807

CATALOG NUMBER: HCC8W50D010BZ-HM82555950-81MDH

**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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	114	111	108	106	111	109	106	104	105	103	101	101	99	98	97	96	95	94		
2	108	103	99	96	106	101	98	95	98	95	93	95	93	91	92	90	89	87		
3	103	96	91	87	101	95	90	87	92	88	85	90	87	84	88	85	83	81		
4	97	90	85	80	96	89	84	80	87	82	79	85	81	78	83	80	77	76		
5	93	84	79	74	91	83	78	74	82	77	73	80	76	73	78	75	72	71		
6	88	79	73	69	87	78	73	69	77	72	68	76	71	68	74	70	67	66		
7	84	75	69	64	82	74	68	64	73	68	64	71	67	64	70	66	63	62		
8	80	70	64	60	79	70	64	60	69	64	60	68	63	60	67	63	60	58		
9	76	67	61	57	75	66	61	57	65	60	56	64	60	56	63	59	56	55		
10	73	63	57	54	72	63	57	53	62	57	53	61	56	53	60	56	53	52		

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

	0°
0°	250009
5°	227825
10°	194654
15°	169753
20°	151302
25°	134215
30°	109889
35°	63099
40°	28005
45°	16297
50°	9412
55°	5371
60°	2973
65°	1897
70°	1334
75°	882
80°	657
85°	1309



TEST NUMBER: P593807  
 CATALOG NUMBER: HCC8W50D010BZ-HM82555950-81MDH

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	666.2	12.2
10°-20°	1494.7	27.3
20°-30°	1789.2	32.7
30°-40°	1082.4	19.8
40°-50°	303.3	5.5
50°-60°	94.2	1.7
60°-70°	26.9	0.5
70°-80°	7.3	0.1
80°-90°	2.5	0.0
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°	3950.1	72.3
0°-40°	5032.5	92.1
0°-60°	5430.0	99.3
0°-90°	5466.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5466.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	8108	
5°	7360	666
15°	5317	1495
25°	3945	1789
35°	1676	1082
45°	374	303
55°	100	94
65°	26	27
75°	7	7
85°	4	3
90°	0	



TEST NUMBER: P593807  
CATALOG NUMBER: HCC8W50D010BZ-HM82555950-81MDH

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	8107.6
2.5°	7878.1
5°	7360.1
7.5°	6775.4
10°	6216.6
12.5°	5728.2
15°	5317.4
17.5°	4954.8
20°	4610.7
22.5°	4292.5
25°	3944.7
27.5°	3552.4
30°	3086.2
32.5°	2483.0
35°	1676.2
37.5°	1043.6
40°	695.7
42.5°	499.5
45°	373.7
47.5°	273.8
50°	196.2
52.5°	136.9
55°	99.9
57.5°	66.6
60°	48.2
62.5°	33.3
65°	26.0
67.5°	18.5
70°	14.8
72.5°	7.4
75°	7.4
77.5°	3.7
80°	3.7
82.5°	3.7
85°	3.7
87.5°	0.0
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)