

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: P593779

Luminaire Tested: **HCC8S45D010BZ-HM82555950-81MDW**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P593779  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-6)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 10/21/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC8S45D010BZ-HM82555950-81MDW  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" MEDIUM DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

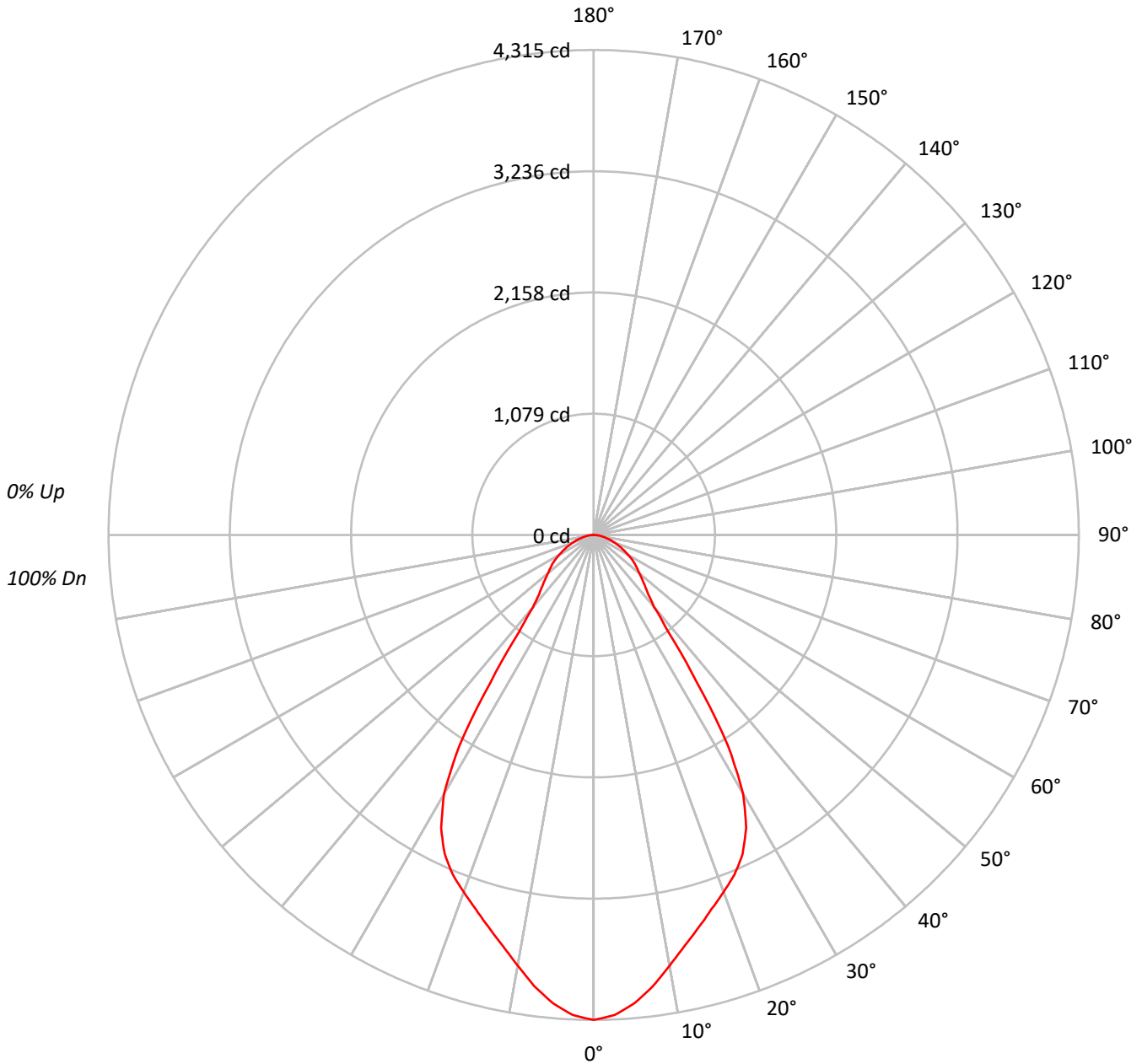
Lumens per Lamp: N/A  
Luminaire Lumens: 5204.0 lumens  
Efficiency: N/A  
Efficacy: 118.3 lumens/watt  
Spacing Criteria (0/90/45): 1 / 1 / 0.95  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

Input Watts (W): 44  
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: P593779  
CATALOG NUMBER: HCC8S45D010BZ-HM82555950-81MDW

### Luminous Intensity Polar Plot





TEST NUMBER: P593779  
 CATALOG NUMBER: HCC8S45D010BZ-HM82555950-81MDW

**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	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90		
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	80		
3	98	89	83	78	95	88	82	78	85	80	76	83	78	75	80	77	74	72		
4	91	82	75	70	89	81	74	69	78	73	69	76	72	68	74	70	67	65		
5	86	76	68	63	84	75	68	63	73	67	62	71	66	62	69	65	61	59		
6	81	70	63	58	79	69	62	57	67	61	57	66	61	56	64	60	56	54		
7	76	65	58	53	74	64	57	53	63	57	52	62	56	52	60	55	52	50		
8	72	61	54	49	70	60	53	49	59	53	48	58	52	48	57	52	48	46		
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43		
10	64	53	46	42	63	53	46	42	52	46	42	51	46	42	50	45	42	40		

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

	0°
0°	133068
5°	129441
10°	121807
15°	115326
20°	110935
25°	106652
30°	94717
35°	60321
40°	33664
45°	28198
50°	25459
55°	23994
60°	21888
65°	19744
70°	17428
75°	15489
80°	13727
85°	12454



TEST NUMBER: P593779  
 CATALOG NUMBER: HCC8S45D010BZ-HM82555950-81MDW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	389.8	7.5
10°-20°	1018.8	19.6
20°-30°	1421.3	27.3
30°-40°	1022.7	19.7
40°-50°	506.8	9.7
50°-60°	396.5	7.6
60°-70°	268.4	5.2
70°-80°	139.4	2.7
80°-90°	40.2	0.8
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°	2830.0	54.4
0°-40°	3852.7	74.0
0°-60°	4756.0	91.4
0°-90°	5204.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5204.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4315	
5°	4182	390
15°	3612	1019
25°	3135	1421
35°	1602	1023
45°	647	507
55°	446	397
65°	271	268
75°	130	139
85°	35	40
90°	0	



TEST NUMBER: P593779  
CATALOG NUMBER: HCC8S45D010BZ-HM82555950-81MDW

**CANDELA DISTRIBUTION (FULL):**

0°	
0°	4315.3
2.5°	4276.6
5°	4181.7
7.5°	4048.3
10°	3890.1
12.5°	3742.6
15°	3612.5
17.5°	3489.6
20°	3380.6
22.5°	3271.6
25°	3134.6
27.5°	2937.8
30°	2660.1
32.5°	2224.5
35°	1602.4
37.5°	1092.9
40°	836.3
42.5°	720.3
45°	646.6
47.5°	583.3
50°	530.7
52.5°	484.9
55°	446.3
57.5°	400.6
60°	354.9
62.5°	309.2
65°	270.6
67.5°	231.9
70°	193.3
72.5°	161.6
75°	130.0
77.5°	101.9
80°	77.3
82.5°	56.2
85°	35.2
87.5°	17.6
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)