

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: P593618

Luminaire Tested: **HCC8S25D010BZ-HM82555850-81WDBB**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P593618  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-11)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 10/21/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC8S25D010BZ-HM82555850-81WDBB  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, BLACK BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

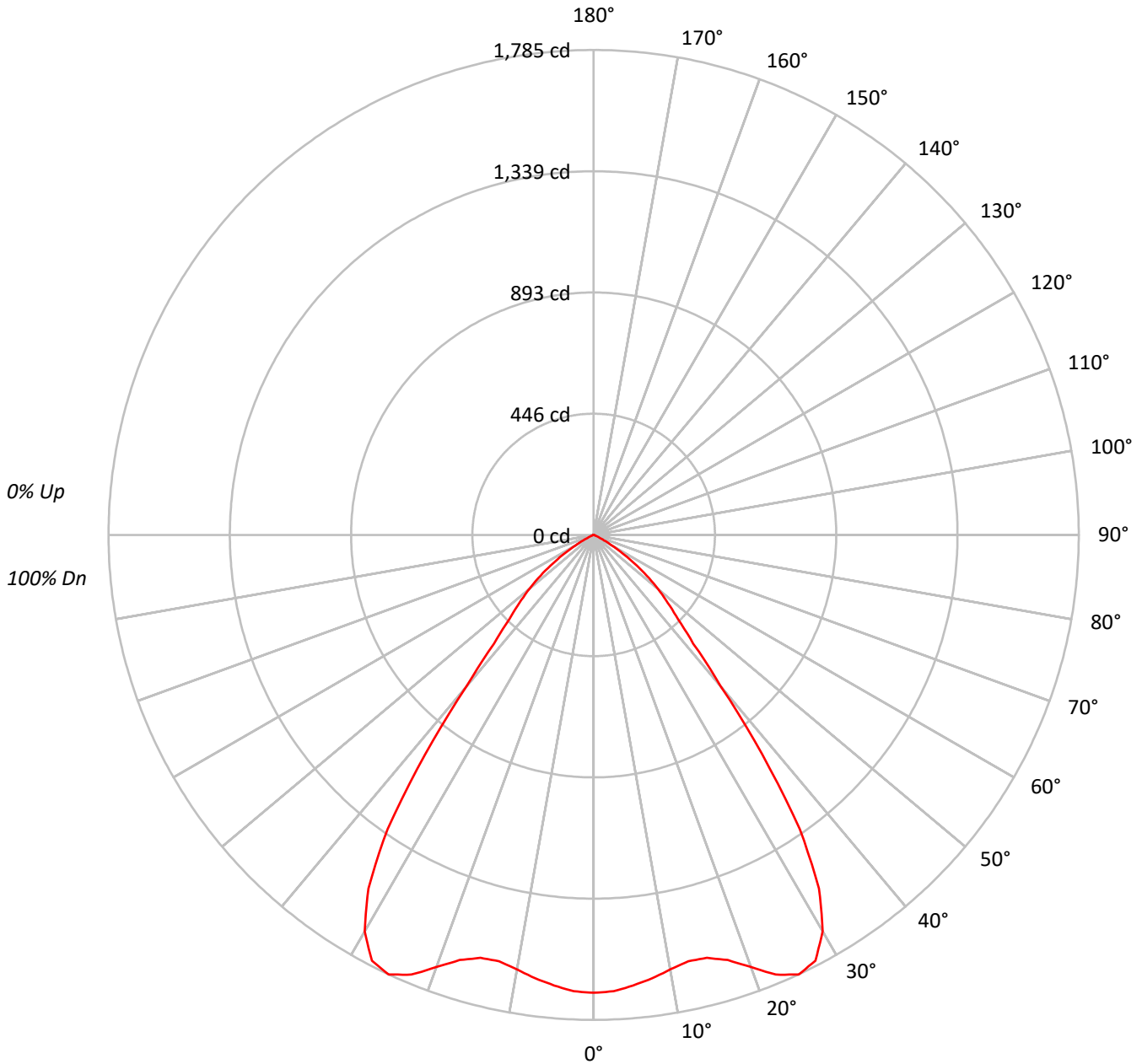
Lumens per Lamp: N/A  
Luminaire Lumens: 2773.1 lumens  
Efficiency: N/A  
Efficacy: 103.5 lumens/watt  
Spacing Criteria (0/90/45): 1.32 / 1.32 / 1.13  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

Input Watts (W): 26.8  
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: P593618  
CATALOG NUMBER: HCC8S25D010BZ-HM82555850-81WDBB

### Luminous Intensity Polar Plot



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



TEST NUMBER: P593618

CATALOG NUMBER: HCC8S25D010BZ-HM82555850-81WDBB

**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			
1	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	92			
2	106	100	95	92	104	98	94	91	95	92	89	92	89	87	89	87	85	83			
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	75			
4	93	84	78	73	91	83	77	72	81	76	71	79	74	71	77	73	70	68			
5	87	77	71	66	85	76	70	65	74	69	65	73	68	64	71	67	63	62			
6	82	71	64	59	80	70	64	59	69	63	59	67	62	58	66	61	58	56			
7	77	66	59	54	75	65	59	54	64	58	54	63	57	53	61	57	53	51			
8	72	61	54	49	71	61	54	49	59	53	49	58	53	49	57	52	49	47			
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	45	42	50	45	41	40			

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

	0°
0°	51959
5°	51526
10°	50848
15°	51430
20°	55537
25°	60733
30°	59997
35°	49769
40°	29293
45°	19136
50°	14833
55°	9854
60°	4798
65°	1481
70°	505
75°	441
80°	320
85°	637



TEST NUMBER: P593618  
 CATALOG NUMBER: HCC8S25D010BZ-HM82555850-81WDBB

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	157.6	5.7
10°-20°	462.8	16.7
20°-30°	809.2	29.2
30°-40°	787.1	28.4
40°-50°	357.9	12.9
50°-60°	166.0	6.0
60°-70°	27.8	1.0
70°-80°	3.4	0.1
80°-90°	1.2	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°	1429.6	51.6
0°-40°	2216.8	79.9
0°-60°	2740.7	98.8
0°-90°	2773.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2773.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1685	
5°	1665	158
15°	1611	463
25°	1785	809
35°	1322	787
45°	439	358
55°	183	166
65°	20	28
75°	4	3
85°	2	1
90°	0	



TEST NUMBER: P593618  
CATALOG NUMBER: HCC8S25D010BZ-HM82555850-81WDBB

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1685.0
2.5°	1681.3
5°	1664.6
7.5°	1646.1
10°	1623.9
12.5°	1607.2
15°	1611.0
17.5°	1640.5
20°	1692.4
22.5°	1751.7
25°	1785.0
27.5°	1766.5
30°	1685.0
32.5°	1542.4
35°	1322.1
37.5°	1018.4
40°	727.7
42.5°	542.5
45°	438.8
47.5°	370.3
50°	309.2
52.5°	246.3
55°	183.3
57.5°	125.9
60°	77.8
62.5°	42.6
65°	20.3
67.5°	9.3
70°	5.6
72.5°	3.7
75°	3.7
77.5°	1.8
80°	1.8
82.5°	1.8
85°	1.8
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)