

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: P593629

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

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P593629  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-9)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 10/21/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC8S25D010BZ-HM82555850-81WDW  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

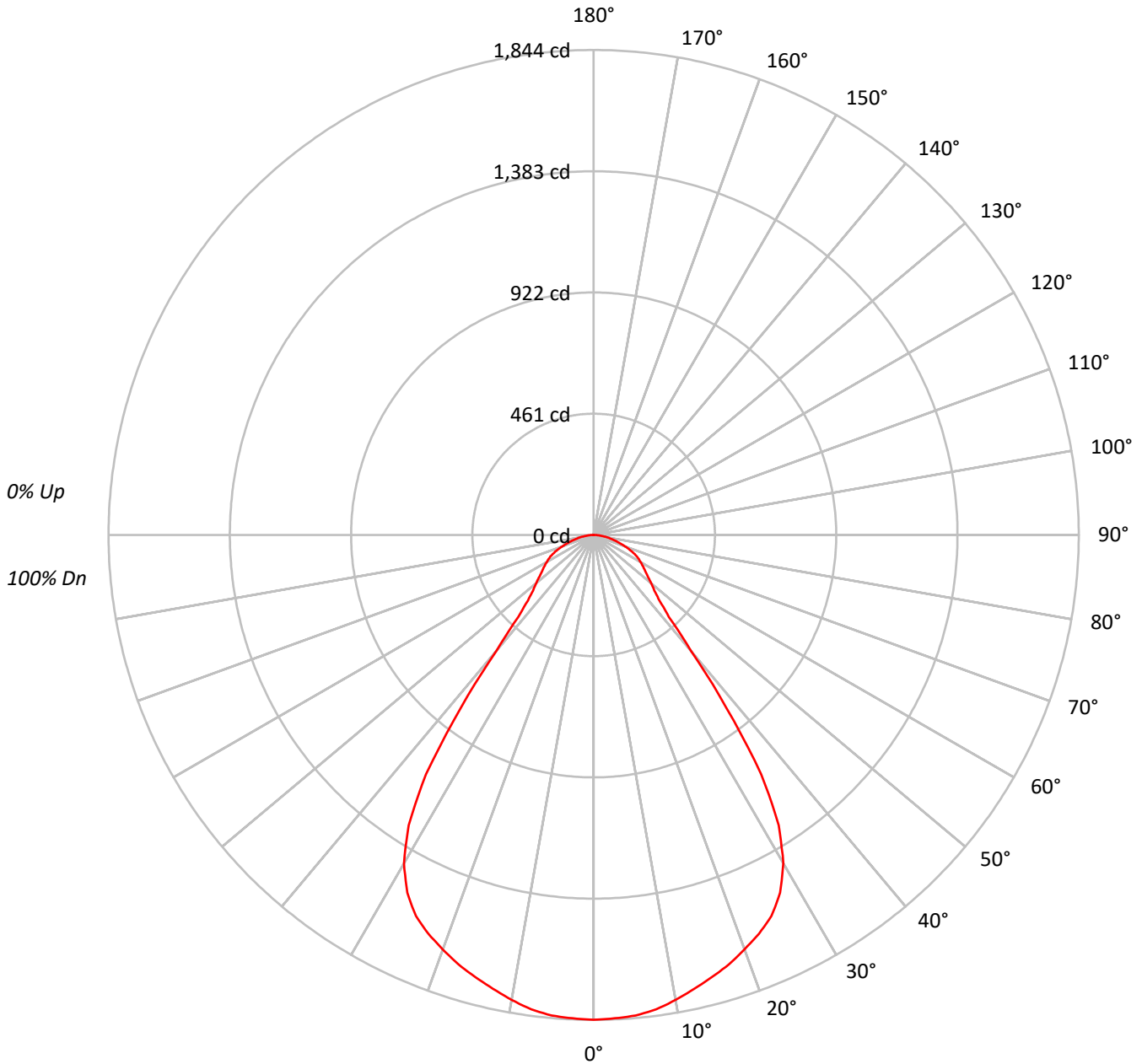
Lumens per Lamp: N/A  
Luminaire Lumens: 2843.6 lumens  
Efficiency: N/A  
Efficacy: 106.1 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.06  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

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: P593629  
CATALOG NUMBER: HCC8S25D010BZ-HM82555850-81WDW

### Luminous Intensity Polar Plot





TEST NUMBER: P593629  
 CATALOG NUMBER: HCC8S25D010BZ-HM82555850-81WDW

**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	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	111	108	104	101	109	105	102	100	101	99	96		97	95	94		94	92	91	89
2	104	97	92	87	101	95	90	86	92	88	84		89	85	82		86	83	81	79
3	97	88	82	76	94	87	81	76	84	79	75		81	77	73		79	75	72	70
4	90	80	73	68	88	79	73	67	77	71	67		75	70	66		73	68	65	63
5	84	74	66	61	82	73	66	61	71	65	60		69	64	59		67	63	59	57
6	79	68	61	55	77	67	60	55	65	59	55		64	58	54		62	58	54	52
7	74	63	56	50	73	62	55	50	61	54	50		59	54	50		58	53	49	48
8	70	58	51	46	69	58	51	46	57	50	46		55	50	46		54	49	45	44
9	66	54	47	43	65	54	47	42	53	47	42		52	46	42		51	46	42	40
10	62	51	44	39	61	50	44	39	49	43	39		49	43	39		48	43	39	37

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

	0°
0°	56850
5°	56779
10°	56221
15°	55545
20°	55031
25°	54411
30°	51341
35°	41808
40°	23098
45°	15416
50°	13672
55°	12838
60°	12668
65°	12565
70°	11342
75°	10151
80°	8879
85°	7890



TEST NUMBER: P593629  
 CATALOG NUMBER: HCC8S25D010BZ-HM82555850-81WDW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	173.9	6.1
10°-20°	491.3	17.3
20°-30°	730.0	25.7
30°-40°	657.4	23.1
40°-50°	291.4	10.2
50°-60°	215.8	7.6
60°-70°	167.8	5.9
70°-80°	91.0	3.2
80°-90°	24.9	0.9
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°	1395.1	49.1
0°-40°	2052.5	72.2
0°-60°	2559.8	90.0
0°-90°	2843.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2843.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1844	
5°	1834	174
15°	1740	491
25°	1599	730
35°	1111	657
45°	354	291
55°	239	216
65°	172	168
75°	85	91
85°	22	25
90°	0	



TEST NUMBER: P593629

CATALOG NUMBER: HCC8S25D010BZ-HM82555850-81WDW

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1843.6
2.5°	1839.9
5°	1834.3
7.5°	1819.5
10°	1795.5
12.5°	1767.6
15°	1739.9
17.5°	1712.1
20°	1677.0
22.5°	1641.8
25°	1599.2
27.5°	1534.5
30°	1441.9
32.5°	1308.6
35°	1110.6
37.5°	829.2
40°	573.8
42.5°	423.8
45°	353.5
47.5°	312.8
50°	285.0
52.5°	259.2
55°	238.8
57.5°	222.1
60°	205.4
62.5°	190.7
65°	172.2
67.5°	149.9
70°	125.8
72.5°	105.5
75°	85.2
77.5°	66.7
80°	50.0
82.5°	35.2
85°	22.3
87.5°	9.2
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)