

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: P593642

Luminaire Tested: **HCC8S25D010MW-HM82555950-81WDC**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P593642  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-7)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 10/21/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC8S25D010MW-HM82555950-81WDC  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, SPECULAR TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

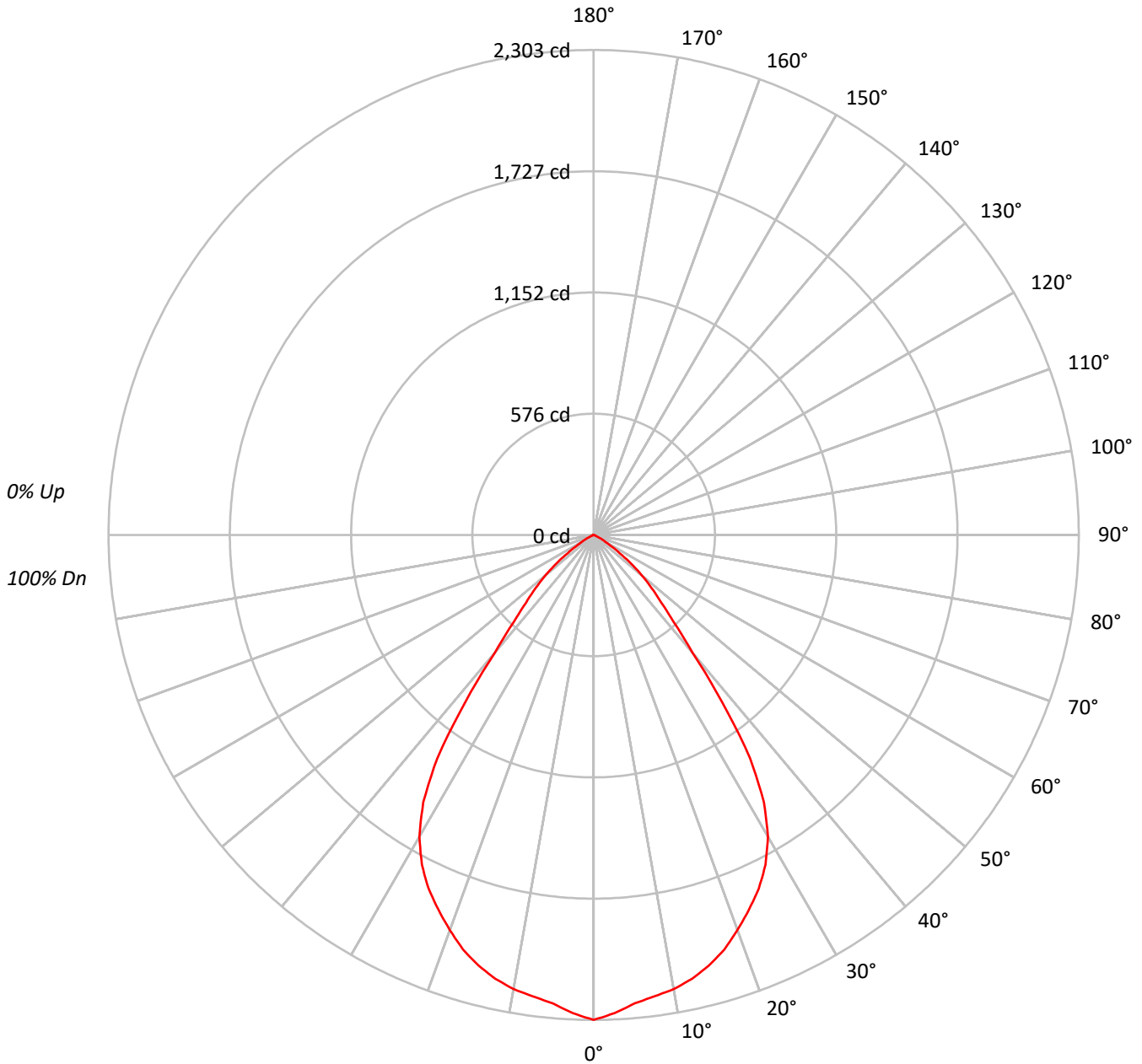
Lumens per Lamp: N/A  
Luminaire Lumens: 2959.9 lumens  
Efficiency: N/A  
Efficacy: 110.4 lumens/watt  
Spacing Criteria (0/90/45): 1.1 / 1.1 / 1.05  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

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: P593642  
CATALOG NUMBER: HCC8S25D010MW-HM82555950-81WDC

### Luminous Intensity Polar Plot



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



TEST NUMBER: P593642

CATALOG NUMBER: HCC8S25D010MW-HM82555950-81WDC

**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	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									100																			
1	113	110	107	105	110	108	105	103	104	102	100	100	98	97	96	95	94	92									92																			
2	106	101	96	93	104	99	95	92	96	92	90	93	90	88	90	88	86	84									84																			
3	100	93	87	83	98	91	86	82	89	84	81	86	83	79	84	81	78	77									77																			
4	94	86	79	75	92	84	79	74	82	77	73	80	76	72	78	75	71	70									70																			
5	88	79	72	68	87	78	72	67	76	71	67	74	70	66	73	69	65	64									64																			
6	83	73	66	62	82	72	66	61	71	65	61	69	64	61	68	64	60	59									59																			
7	78	68	61	57	77	67	61	56	66	60	56	65	60	56	63	59	55	54									54																			
8	74	63	57	52	73	63	56	52	62	56	52	60	55	51	59	55	51	50									50																			
9	70	59	53	48	69	59	52	48	58	52	48	57	51	48	56	51	47	46									46																			
10	66	55	49	45	65	55	49	45	54	48	44	53	48	44	52	48	44	43									43																			

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

	0°
0°	71019
5°	69108
10°	68583
15°	67558
20°	65516
25°	63074
30°	58915
35°	48753
40°	29434
45°	19825
50°	14286
55°	8145
60°	3583
65°	1291
70°	469
75°	203
80°	0
85°	0



TEST NUMBER: P593642  
 CATALOG NUMBER: HCC8S25D010MW-HM82555950-81WDC

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	212.1	7.2
10°-20°	594.7	20.1
20°-30°	848.4	28.7
30°-40°	772.6	26.1
40°-50°	364.4	12.3
50°-60°	143.3	4.8
60°-70°	22.8	0.8
70°-80°	1.6	0.1
80°-90°	0.0	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°	1655.3	55.9
0°-40°	2427.8	82.0
0°-60°	2935.5	99.2
0°-90°	2959.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2959.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2303	
5°	2233	212
15°	2116	595
25°	1854	848
35°	1295	773
45°	455	364
55°	152	143
65°	18	23
75°	2	2
85°	0	0
90°	0	



TEST NUMBER: P593642  
CATALOG NUMBER: HCC8S25D010MW-HM82555950-81WDC

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2303.1
2.5°	2273.1
5°	2232.6
7.5°	2209.7
10°	2190.3
12.5°	2158.6
15°	2116.2
17.5°	2063.4
20°	1996.5
22.5°	1926.0
25°	1853.8
27.5°	1765.6
30°	1654.6
32.5°	1504.8
35°	1295.1
37.5°	1000.9
40°	731.2
42.5°	562.1
45°	454.6
47.5°	373.5
50°	297.8
52.5°	223.7
55°	151.5
57.5°	95.1
60°	58.1
62.5°	35.2
65°	17.7
67.5°	8.8
70°	5.2
72.5°	1.7
75°	1.7
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
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)