

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: P579696

Luminaire Tested: **HCC4S10D010MB-HM40525827-41WDW**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P579696  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-9)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/9/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC4S10D010MB-HM40525827-41WDW  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

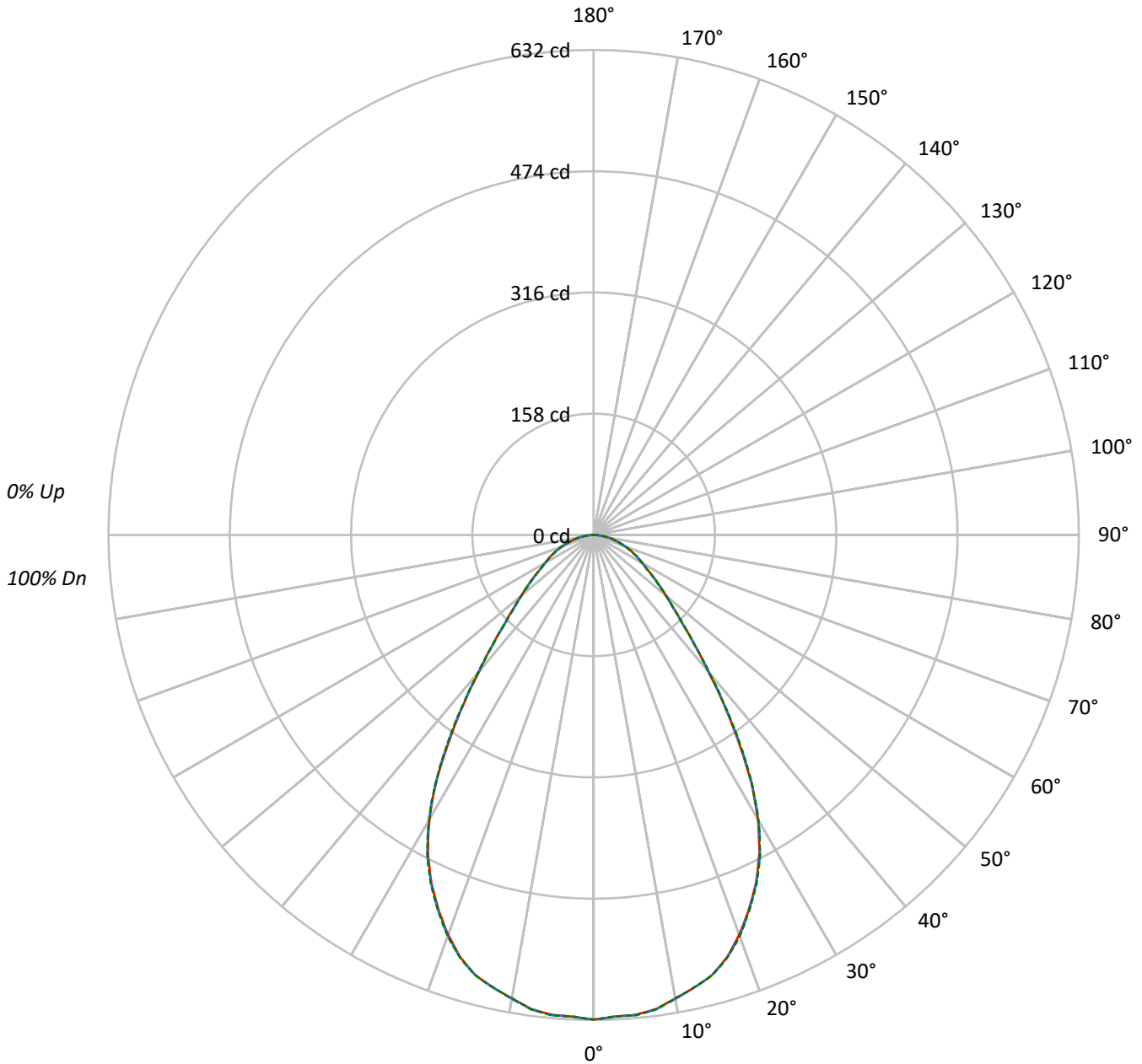
Lumens per Lamp: N/A  
Luminaire Lumens: 974.4 lumens  
Efficiency: N/A  
Efficacy: 98.4 lumens/watt  
Spacing Criteria (0/90/45): 1.06 / 1.07 / 1.04  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 9.9  
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: P579696  
CATALOG NUMBER: HCC4S10D010MB-HM40525827-41WDW

### Luminous Intensity Polar Plot



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



TEST NUMBER: P579696

CATALOG NUMBER: HCC4S10D010MB-HM40525827-41WDW

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20									20									20									20									
RC	80									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	111	107	104	101	108	105	102	99	101	98	96	97	95	93	94	92	90	89																			
2	103	97	91	87	101	95	90	86	91	87	84	88	85	82	85	83	80	78																			
3	96	87	81	76	94	86	80	75	83	78	74	81	76	72	78	74	71	69																			
4	90	80	72	67	87	78	72	66	76	70	66	74	69	65	72	68	64	62																			
5	84	73	65	60	82	72	65	59	70	64	59	68	63	58	66	62	58	56																			
6	78	67	59	54	77	66	59	54	64	58	53	63	57	53	61	56	53	51																			
7	73	62	54	49	72	61	54	49	60	53	49	58	53	48	57	52	48	46																			
8	69	57	50	45	68	57	50	45	55	49	45	54	49	44	53	48	44	42																			
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	45	41	39																			
10	61	50	43	38	60	49	43	38	48	42	38	48	42	38	47	42	38	36																			

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

	0°	45°	90°
0°	77905	77905	77905
5°	77707	77794	77794
10°	76815	76903	76815
15°	75890	75890	75890
20°	72771	72942	73034
25°	68076	68157	68334
30°	60987	61187	61187
35°	49525	49916	50022
40°	37388	37581	37694
45°	28625	28503	28503
50°	23583	23449	23449
55°	20236	20107	20107
60°	18058	17910	17910
65°	16986	16986	16986
70°	15796	15796	15796
75°	14297	14631	14297
80°	13496	12999	13496
85°	11180	11180	11180



TEST NUMBER: P579696  
 CATALOG NUMBER: HCC4S10D010MB-HM40525827-41WDW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	59.5	6.1
10°-20°	166.5	17.1
20°-30°	228.8	23.5
30°-40°	205.8	21.1
40°-50°	130.0	13.3
50°-60°	84.9	8.7
60°-70°	57.5	5.9
70°-80°	32.3	3.3
80°-90°	9.1	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°	454.9	46.7
0°-40°	660.6	67.8
0°-60°	875.4	89.8
0°-90°	974.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	974.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	632	632	632	632	632	
5°	628	628	628	628	628	59
15°	594	594	594	594	594	166
25°	500	501	501	502	502	228
35°	329	330	332	333	332	205
45°	164	163	163	163	163	130
55°	94	94	94	94	94	85
65°	58	58	58	58	58	58
75°	30	31	31	31	30	32
85°	8	8	8	8	8	9
90°	0	0	0	0	0	



TEST NUMBER: P579696

CATALOG NUMBER: HCC4S10D010MB-HM40525827-41WDW

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	631.6	631.6	631.6	631.6	631.6
2.5°	628.3	628.3	628.3	628.3	628.3
5°	627.6	627.6	628.3	628.3	628.3
7.5°	623.1	623.7	623.7	623.7	623.7
10°	613.3	613.3	614.0	614.0	613.3
12.5°	604.2	604.2	604.2	604.7	604.2
15°	594.3	594.3	594.3	594.3	594.3
17.5°	577.3	578.0	578.0	578.0	578.0
20°	554.4	555.7	555.7	556.4	556.4
22.5°	528.3	528.9	529.6	530.2	529.6
25°	500.2	500.8	500.8	502.1	502.1
27.5°	467.5	468.2	469.4	469.4	469.4
30°	428.2	428.9	429.6	429.6	429.6
32.5°	381.8	381.8	383.2	383.7	383.2
35°	328.9	330.1	331.5	332.8	332.2
37.5°	278.5	279.8	280.5	280.5	281.1
40°	232.2	233.4	233.4	234.8	234.1
42.5°	195.5	194.8	194.8	196.2	195.5
45°	164.1	163.4	163.4	163.4	163.4
47.5°	141.2	140.5	140.5	140.5	140.5
50°	122.9	122.2	122.2	122.2	122.2
52.5°	107.9	107.2	107.2	107.2	106.5
55°	94.1	94.1	93.5	94.1	93.5
57.5°	81.7	81.7	81.7	81.7	81.7
60°	73.2	72.6	72.6	72.6	72.6
62.5°	65.4	65.4	65.4	65.4	65.4
65°	58.2	58.2	58.2	58.2	58.2
67.5°	51.0	50.3	51.0	51.0	50.3
70°	43.8	43.1	43.8	43.8	43.8
72.5°	36.6	36.6	36.6	37.2	36.6
75°	30.0	30.7	30.7	30.7	30.0
77.5°	24.2	24.8	24.2	24.2	24.2
80°	19.0	18.3	18.3	18.3	19.0
82.5°	13.1	13.1	13.1	13.1	13.1
85°	7.9	7.9	7.9	7.9	7.9
87.5°	3.3	3.3	3.3	3.3	3.3
90°	0.0	0.0	0.0	0.0	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°    - - 45°-225°    - - - - 90°-270°

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)