

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: P579822

Luminaire Tested: **HCC4S10D010MB-HM40525940-41WDW**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P579822  
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-HM40525940-41WDW  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

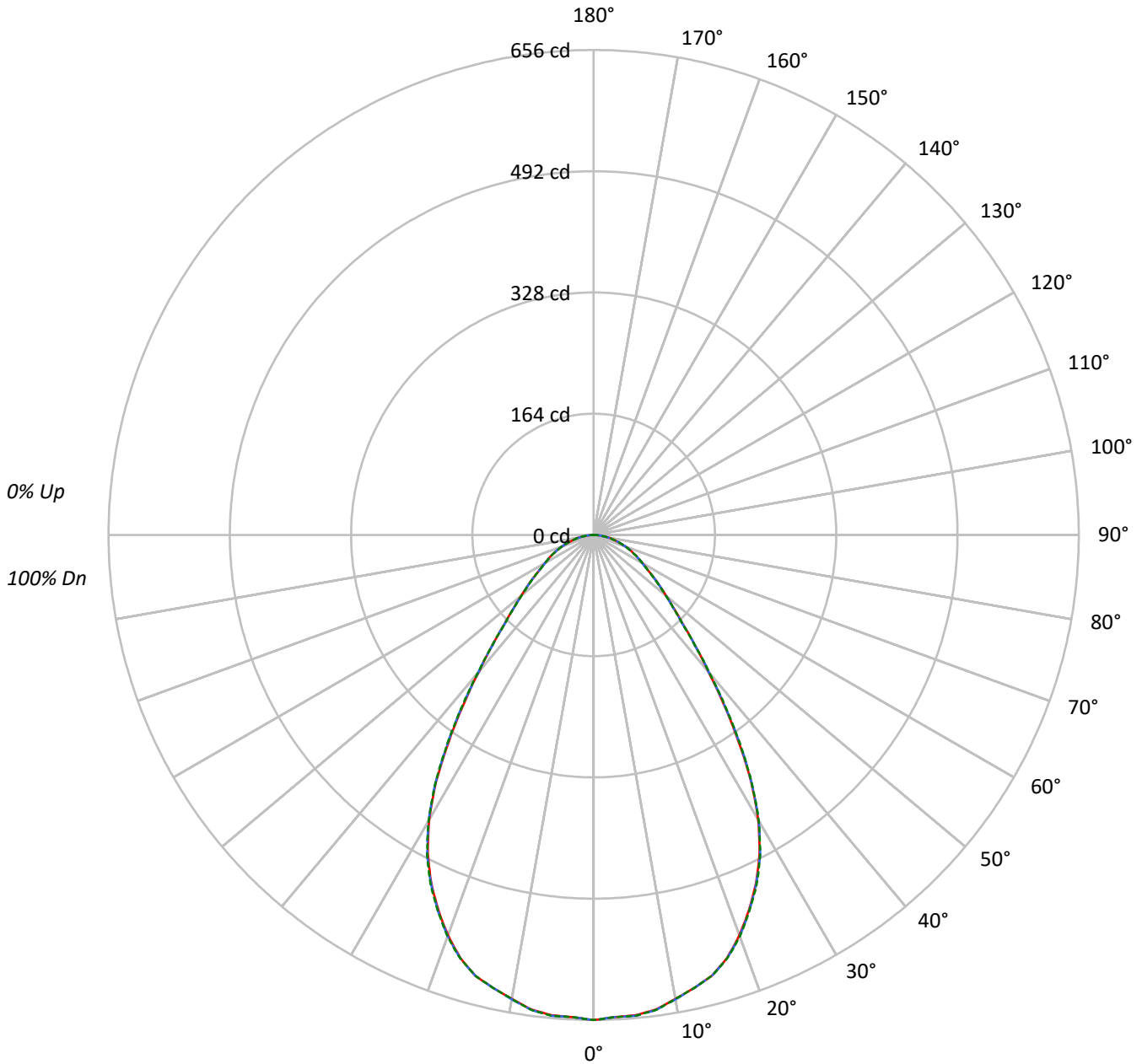
Lumens per Lamp: N/A  
Luminaire Lumens: 1012.4 lumens  
Efficiency: N/A  
Efficacy: 102.3 lumens/watt  
Spacing Criteria (0/90/45): 1.06 / 1.07 / 1.04  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

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: P579822  
CATALOG NUMBER: HCC4S10D010MB-HM40525940-41WDW

### Luminous Intensity Polar Plot



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



TEST NUMBER: P579822

CATALOG NUMBER: HCC4S10D010MB-HM40525940-41WDW

**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	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	94	92	90	89					89			
2	103	97	91	87	101	95	90	86	91	87	84	88	85	82	85	83	80	78					78			
3	96	87	81	76	94	86	80	75	83	78	74	81	76	72	78	74	71	69					69			
4	90	80	72	67	87	78	72	66	76	70	66	74	69	65	72	68	64	62					62			
5	84	73	65	60	82	72	65	59	70	64	59	68	63	58	66	62	58	56					56			
6	78	67	59	54	77	66	59	54	64	58	53	63	57	53	61	56	53	51					51			
7	73	62	54	49	72	61	54	49	60	53	49	58	53	48	57	52	48	46					46			
8	69	57	50	45	68	57	50	45	55	49	45	54	49	44	53	48	44	42					42			
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	45	41	39					39			
10	61	50	43	38	60	49	43	38	48	42	38	48	42	38	47	42	38	36					36			

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

	0°	45°	90°
0°	80939	80939	80939
5°	80741	80828	80828
10°	79808	79883	79808
15°	78853	78853	78853
20°	75620	75790	75882
25°	70716	70811	71002
30°	63380	63565	63565
35°	51437	51859	51949
40°	38821	39046	39159
45°	29742	29619	29619
50°	24505	24370	24370
55°	21053	20903	20903
60°	18773	18601	18601
65°	17628	17628	17628
70°	16409	16409	16409
75°	14917	15250	14917
80°	13993	13496	13993
85°	11605	11605	11605



TEST NUMBER: P579822  
 CATALOG NUMBER: HCC4S10D010MB-HM40525940-41WDW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	61.8	6.1
10°-20°	173.0	17.1
20°-30°	237.7	23.5
30°-40°	213.8	21.1
40°-50°	135.1	13.3
50°-60°	88.2	8.7
60°-70°	59.7	5.9
70°-80°	33.6	3.3
80°-90°	9.4	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°	472.6	46.7
0°-40°	686.3	67.8
0°-60°	909.6	89.8
0°-90°	1012.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1012.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	656	656	656	656	656	
5°	652	652	653	653	653	62
15°	618	618	618	618	618	173
25°	520	520	520	522	522	237
35°	342	343	344	346	345	213
45°	170	170	170	170	170	135
55°	98	98	97	98	97	89
65°	60	60	60	60	60	60
75°	31	32	32	32	31	33
85°	8	8	8	8	8	10
90°	0	0	0	0	0	



TEST NUMBER: P579822

CATALOG NUMBER: HCC4S10D010MB-HM40525940-41WDW

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	656.2	656.2	656.2	656.2	656.2
2.5°	652.8	652.8	652.8	652.8	652.8
5°	652.1	652.1	652.8	652.8	652.8
7.5°	647.3	648.0	648.0	648.0	648.0
10°	637.2	637.2	637.8	637.8	637.2
12.5°	627.6	627.6	627.6	628.3	627.6
15°	617.5	617.5	617.5	617.5	617.5
17.5°	599.8	600.4	600.4	600.4	600.4
20°	576.1	577.4	577.4	578.1	578.1
22.5°	548.9	549.5	550.2	550.9	550.2
25°	519.6	520.3	520.3	521.7	521.7
27.5°	485.7	486.4	487.7	487.7	487.7
30°	445.0	445.6	446.3	446.3	446.3
32.5°	396.7	396.7	398.1	398.8	398.1
35°	341.6	343.0	344.4	345.7	345.0
37.5°	289.4	290.8	291.4	291.4	292.1
40°	241.1	242.5	242.5	243.9	243.2
42.5°	203.1	202.5	202.5	203.8	203.1
45°	170.5	169.8	169.8	169.8	169.8
47.5°	146.7	146.0	146.0	146.0	146.0
50°	127.7	127.0	127.0	127.0	127.0
52.5°	112.1	111.4	111.4	111.4	110.7
55°	97.9	97.9	97.2	97.9	97.2
57.5°	84.9	84.9	84.9	84.9	84.9
60°	76.1	75.4	75.4	75.4	75.4
62.5°	67.9	67.9	67.9	67.9	67.9
65°	60.4	60.4	60.4	60.4	60.4
67.5°	53.0	52.3	53.0	53.0	52.3
70°	45.5	44.8	45.5	45.5	45.5
72.5°	38.0	38.0	38.0	38.7	38.0
75°	31.3	32.0	32.0	32.0	31.3
77.5°	25.1	25.8	25.1	25.1	25.1
80°	19.7	19.0	19.0	19.0	19.7
82.5°	13.5	13.5	13.5	13.5	13.5
85°	8.2	8.2	8.2	8.2	8.2
87.5°	3.4	3.4	3.4	3.4	3.4
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)