

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: P581473

Luminaire Tested: **HCC4S07D010MW-HM40525840-41WDW**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P581473  
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: HCC4S07D010MW-HM40525840-41WDW  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

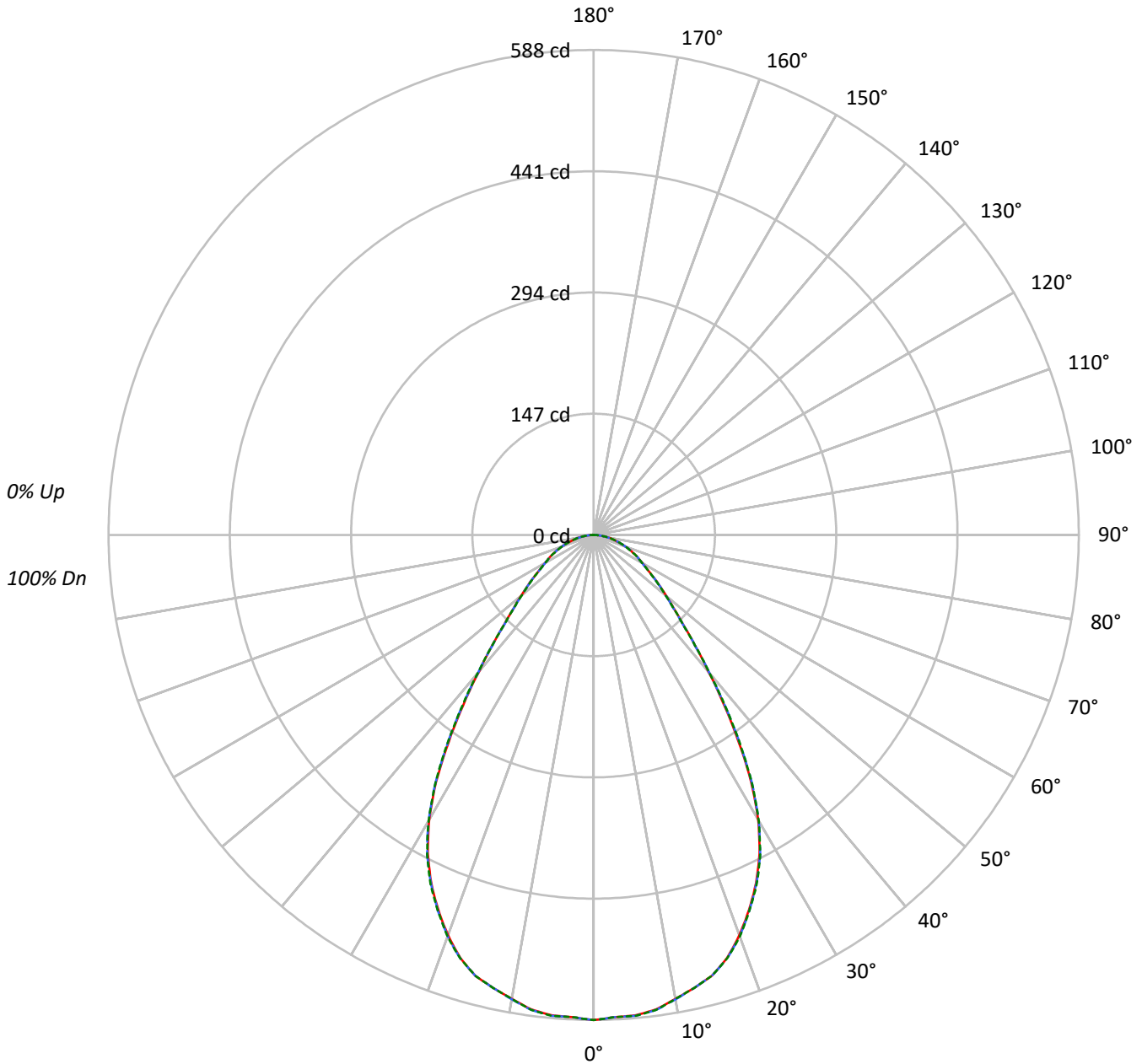
Lumens per Lamp: N/A  
Luminaire Lumens: 907.6 lumens  
Efficiency: N/A  
Efficacy: 113.5 lumens/watt  
Spacing Criteria (0/90/45): 1.06 / 1.07 / 1.04  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 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: P581473  
CATALOG NUMBER: HCC4S07D010MW-HM40525840-41WDW

### Luminous Intensity Polar Plot





TEST NUMBER: P581473

CATALOG NUMBER: HCC4S07D010MW-HM40525840-41WDW

**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	67	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°	72552	72552	72552
5°	72383	72458	72458
10°	71542	71605	71542
15°	70680	70680	70680
20°	67784	67941	68020
25°	63394	63489	63639
30°	56814	56985	56985
35°	46107	46483	46574
40°	34812	35005	35102
45°	26654	26567	26567
50°	21972	21856	21856
55°	18860	18731	18731
60°	16824	16676	16676
65°	15819	15819	15819
70°	14750	14750	14750
75°	13344	13630	13344
80°	12502	12146	12502
85°	10331	10331	10331



TEST NUMBER: P581473  
 CATALOG NUMBER: HCC4S07D010MW-HM40525840-41WDW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	55.4	6.1
10°-20°	155.1	17.1
20°-30°	213.1	23.5
30°-40°	191.6	21.1
40°-50°	121.1	13.3
50°-60°	79.1	8.7
60°-70°	53.6	5.9
70°-80°	30.1	3.3
80°-90°	8.5	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°	423.6	46.7
0°-40°	615.3	67.8
0°-60°	815.4	89.8
0°-90°	907.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	907.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	588	588	588	588	588	
5°	585	585	585	585	585	55
15°	554	554	554	554	554	155
25°	466	466	466	468	468	213
35°	306	308	309	310	309	191
45°	153	152	152	152	152	121
55°	88	88	87	88	87	79
65°	54	54	54	54	54	54
75°	28	29	29	29	28	30
85°	7	7	7	7	7	9
90°	0	0	0	0	0	

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



TEST NUMBER: P581473

CATALOG NUMBER: HCC4S07D010MW-HM40525840-41WDW

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	588.2	588.2	588.2	588.2	588.2
2.5°	585.2	585.2	585.2	585.2	585.2
5°	584.6	584.6	585.2	585.2	585.2
7.5°	580.3	580.9	580.9	580.9	580.9
10°	571.2	571.2	571.7	571.7	571.2
12.5°	562.6	562.6	562.6	563.3	562.6
15°	553.5	553.5	553.5	553.5	553.5
17.5°	537.7	538.3	538.3	538.3	538.3
20°	516.4	517.6	517.6	518.2	518.2
22.5°	492.0	492.6	493.2	493.9	493.2
25°	465.8	466.5	466.5	467.6	467.6
27.5°	435.4	436.0	437.2	437.2	437.2
30°	398.9	399.4	400.1	400.1	400.1
32.5°	355.6	355.6	356.9	357.4	356.9
35°	306.2	307.5	308.7	310.0	309.3
37.5°	259.4	260.6	261.3	261.3	261.9
40°	216.2	217.4	217.4	218.6	218.0
42.5°	182.1	181.5	181.5	182.6	182.1
45°	152.8	152.3	152.3	152.3	152.3
47.5°	131.6	130.9	130.9	130.9	130.9
50°	114.5	113.9	113.9	113.9	113.9
52.5°	100.5	99.9	99.9	99.9	99.2
55°	87.7	87.7	87.1	87.7	87.1
57.5°	76.1	76.1	76.1	76.1	76.1
60°	68.2	67.6	67.6	67.6	67.6
62.5°	60.9	60.9	60.9	60.9	60.9
65°	54.2	54.2	54.2	54.2	54.2
67.5°	47.5	46.9	47.5	47.5	46.9
70°	40.9	40.2	40.9	40.9	40.9
72.5°	34.1	34.1	34.1	34.7	34.1
75°	28.0	28.6	28.6	28.6	28.0
77.5°	22.5	23.1	22.5	22.5	22.5
80°	17.6	17.1	17.1	17.1	17.6
82.5°	12.2	12.2	12.2	12.2	12.2
85°	7.3	7.3	7.3	7.3	7.3
87.5°	3.1	3.1	3.1	3.1	3.1
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)