

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: P592611

Luminaire Tested: **HCC4S10D010MW-HM40525850-41MDW**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P592611  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-6)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/9/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC4S10D010MW-HM40525850-41MDW  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" MEDIUM DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

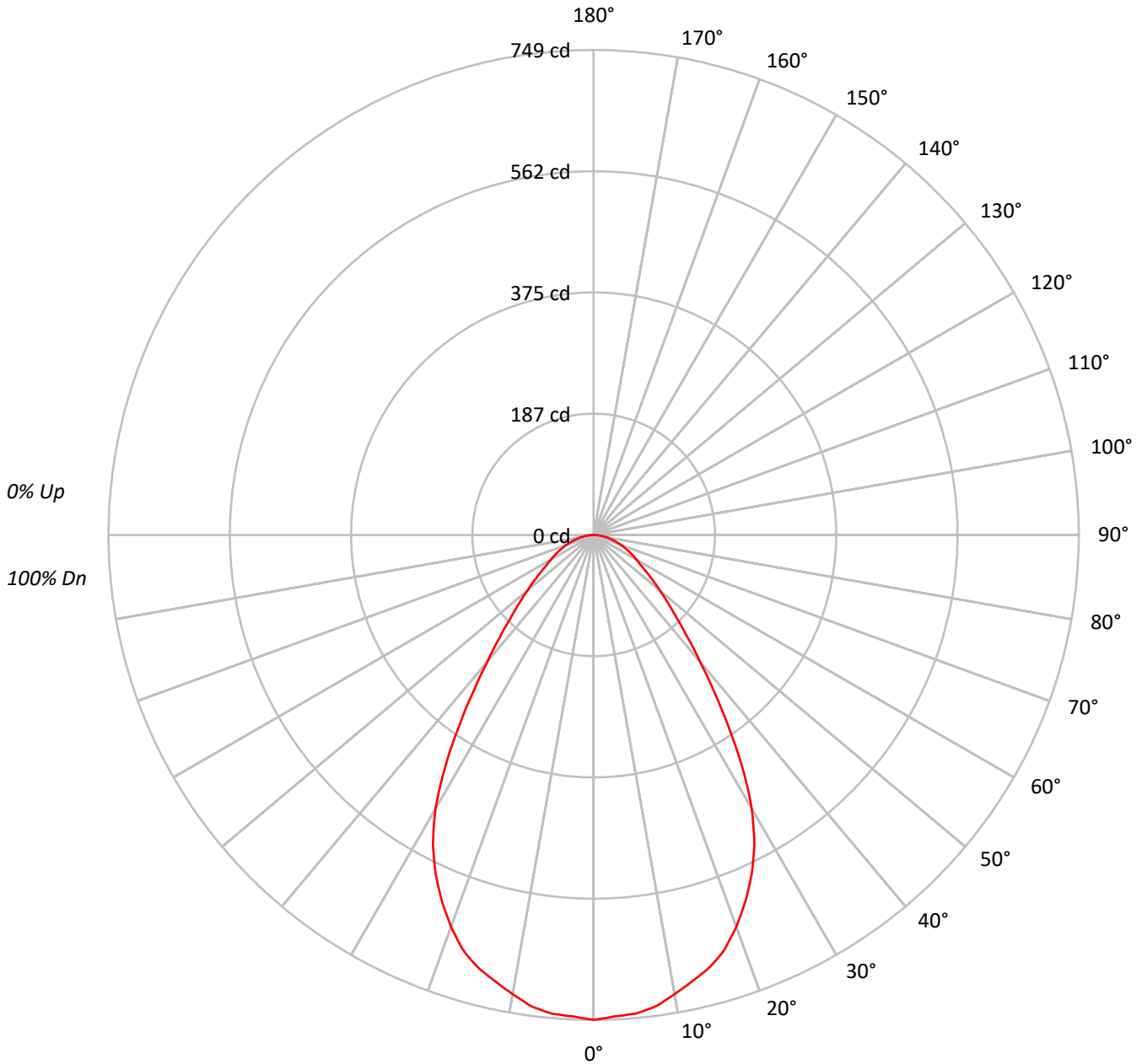
Lumens per Lamp: N/A  
Luminaire Lumens: 1089.5 lumens  
Efficiency: N/A  
Efficacy: 110.1 lumens/watt  
Spacing Criteria (0/90/45): 1.04 / 1.04 / 1.01  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

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: P592611  
CATALOG NUMBER: HCC4S10D010MW-HM40525850-41MDW

### Luminous Intensity Polar Plot





TEST NUMBER: P592611

CATALOG NUMBER: HCC4S10D010MW-HM40525850-41MDW

**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	108	104	101	109	105	102	100	101	99	97	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	60	55	77	67	60	55	65	59	54	64	58	54	62	57	54	52																			
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47																			
8	70	58	51	46	68	58	51	46	56	50	46	55	50	45	54	49	45	44																			
9	66	54	47	42	65	54	47	42	53	46	42	52	46	42	51	46	42	40																			
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37																			

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

	0°
0°	92374
5°	91884
10°	90191
15°	88290
20°	84519
25°	78596
30°	69561
35°	54900
40°	41075
45°	31608
50°	25637
55°	21268
60°	18798
65°	17395
70°	16048
75°	14774
80°	13425
85°	10614



TEST NUMBER: P592611  
 CATALOG NUMBER: HCC4S10D010MW-HM40525850-41MDW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	70.2	6.4
10°-20°	193.9	17.8
20°-30°	263.3	24.2
30°-40°	228.1	20.9
40°-50°	143.2	13.1
50°-60°	90.1	8.3
60°-70°	59.1	5.4
70°-80°	32.6	3.0
80°-90°	9.0	0.8
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°	527.4	48.4
0°-40°	755.5	69.3
0°-60°	988.8	90.8
0°-90°	1089.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1089.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	749	
5°	742	70
15°	691	194
25°	578	263
35°	365	228
45°	181	143
55°	99	90
65°	60	59
75°	31	33
85°	8	9
90°	0	



TEST NUMBER: P592611  
CATALOG NUMBER: HCC4S10D010MW-HM40525850-41MDW

**CANDELA DISTRIBUTION (FULL):**

0°	
0°	748.9
2.5°	744.4
5°	742.1
7.5°	734.6
10°	720.1
12.5°	705.8
15°	691.4
17.5°	671.9
20°	643.9
22.5°	612.2
25°	577.5
27.5°	537.5
30°	488.4
32.5°	428.8
35°	364.6
37.5°	305.8
40°	255.1
42.5°	215.2
45°	181.2
47.5°	155.6
50°	133.6
52.5°	114.7
55°	98.9
57.5°	85.4
60°	76.2
62.5°	67.9
65°	59.6
67.5°	51.3
70°	44.5
72.5°	37.0
75°	31.0
77.5°	24.1
80°	18.9
82.5°	12.9
85°	7.5
87.5°	3.1
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)