

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: **HCC4S10D010BZ-HM40525950-41MDW**

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: HCC4S10D010BZ-HM40525950-41MDW  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" MEDIUM DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

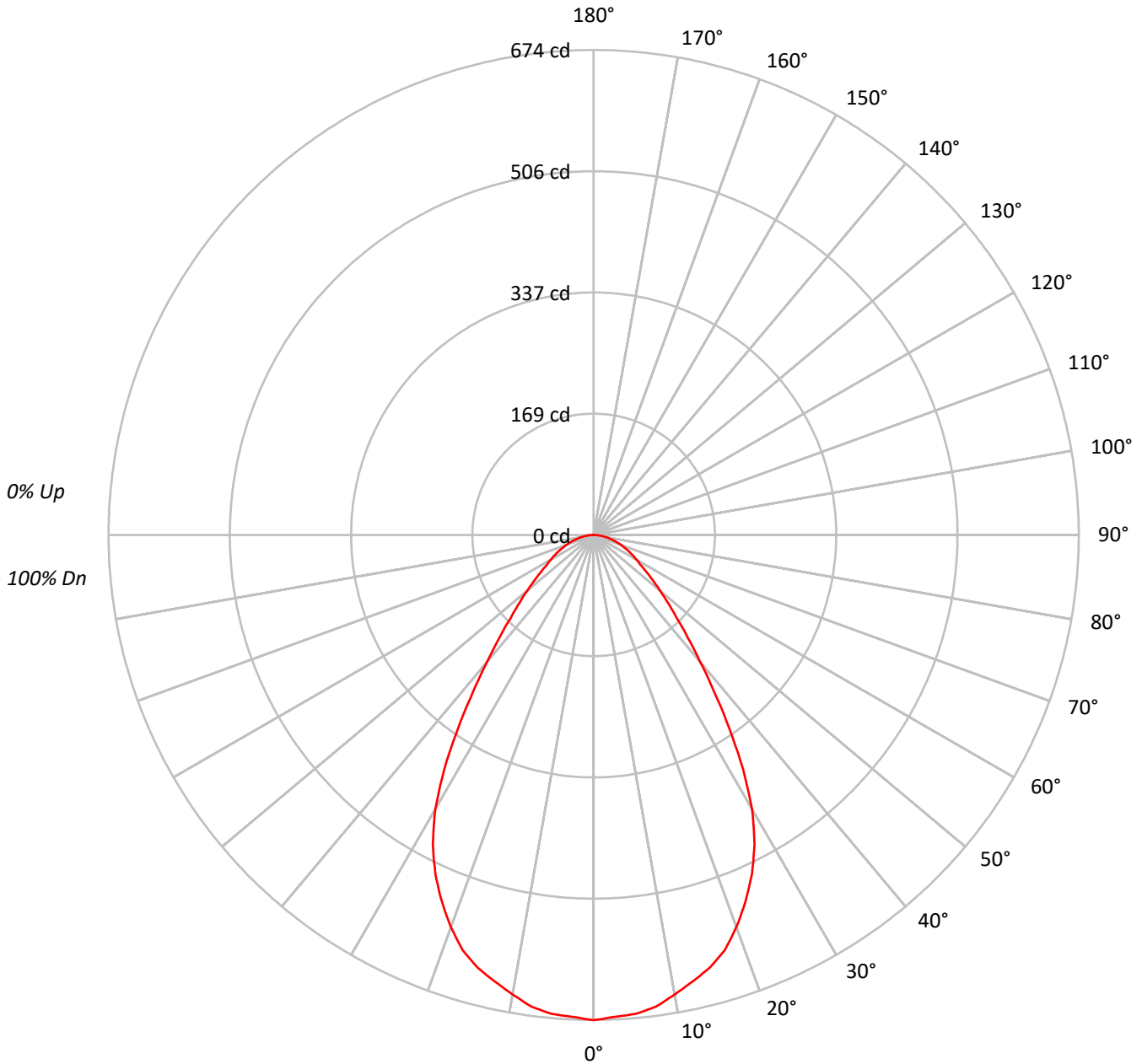
Lumens per Lamp: N/A  
Luminaire Lumens: 981.1 lumens  
Efficiency: N/A  
Efficacy: 99.1 lumens/watt  
Spacing Criteria (0/90/45): 1.04 / 1.04 / 1.01  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 9.9  
Input Voltage (V): NR  
Input Current (Ain): 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: HCC4S10D010BZ-HM40525950-41MDW

### Luminous Intensity Polar Plot



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



TEST NUMBER: P592611

CATALOG NUMBER: HCC4S10D010BZ-HM40525950-41MDW

**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	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			100
1	111	108	104	101	109	105	102	100	101	99	97	97	95	94	94	92	91	89			89
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79			79
3	97	88	82	76	94	87	81	76	84	79	75	81	77	73	79	75	72	70			70
4	90	80	73	68	88	79	73	67	77	71	67	75	70	66	73	68	65	63			63
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	63	59	57			57
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	54	52			52
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47			47
8	70	58	51	46	68	58	51	46	56	50	46	55	50	45	54	49	45	44			44
9	66	54	47	42	65	54	47	42	53	46	42	52	46	42	51	46	42	40			40
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37			37

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

	0°
0°	83184
5°	82734
10°	81224
15°	79517
20°	76119
25°	70784
30°	62640
35°	49434
40°	37002
45°	28468
50°	23085
55°	19161
60°	16923
65°	15673
70°	14462
75°	13296
80°	12075
85°	9624



TEST NUMBER: P592611  
 CATALOG NUMBER: HCC4S10D010BZ-HM40525950-41MDW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	63.2	6.4
10°-20°	174.6	17.8
20°-30°	237.1	24.2
30°-40°	205.4	20.9
40°-50°	129.0	13.1
50°-60°	81.1	8.3
60°-70°	53.3	5.4
70°-80°	29.4	3.0
80°-90°	8.1	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°	474.9	48.4
0°-40°	680.3	69.3
0°-60°	890.4	90.8
0°-90°	981.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	981.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	674	
5°	668	63
15°	623	175
25°	520	237
35°	328	205
45°	163	129
55°	89	81
65°	54	53
75°	28	29
85°	7	8
90°	0	



TEST NUMBER: P592611

CATALOG NUMBER: HCC4S10D010BZ-HM40525950-41MDW

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	674.4
2.5°	670.3
5°	668.2
7.5°	661.4
10°	648.5
12.5°	635.6
15°	622.7
17.5°	605.1
20°	579.9
22.5°	551.4
25°	520.1
27.5°	484.0
30°	439.8
32.5°	386.1
35°	328.3
37.5°	275.3
40°	229.8
42.5°	193.7
45°	163.2
47.5°	140.1
50°	120.3
52.5°	103.3
55°	89.1
57.5°	76.8
60°	68.6
62.5°	61.2
65°	53.7
67.5°	46.2
70°	40.1
72.5°	33.3
75°	27.9
77.5°	21.7
80°	17.0
82.5°	11.6
85°	6.8
87.5°	2.7
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)