

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: P592542

Luminaire Tested: **HCC4W05D010BZ-HM40525850-41WDW**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P592542  
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: HCC4W05D010BZ-HM40525850-41WDW  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

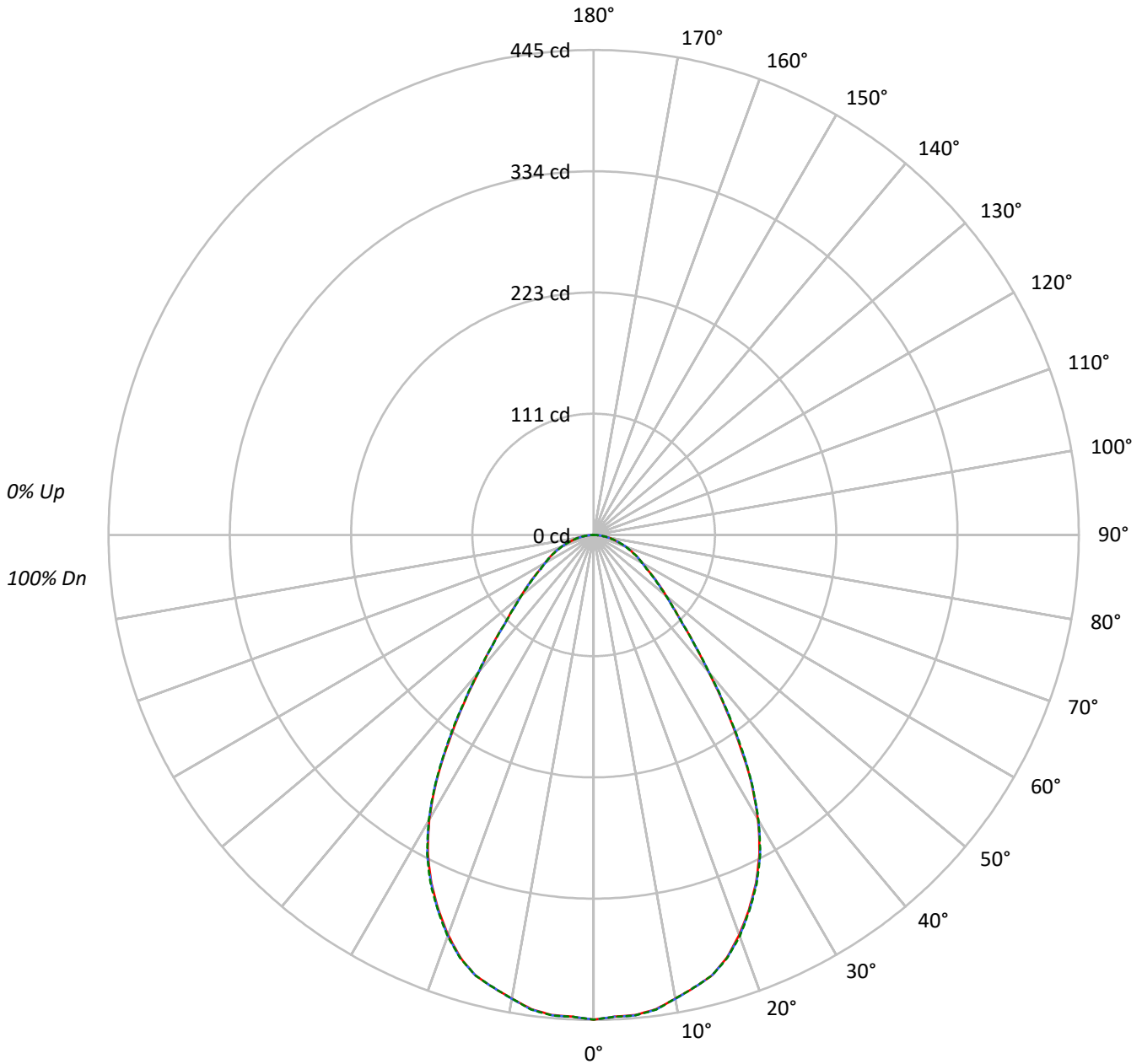
Lumens per Lamp: N/A  
Luminaire Lumens: 686.3 lumens  
Efficiency: N/A  
Efficacy: 114.4 lumens/watt  
Spacing Criteria (0/90/45): 1.06 / 1.07 / 1.04  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 6  
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: P592542  
CATALOG NUMBER: HCC4W05D010BZ-HM40525850-41WDW

### Luminous Intensity Polar Plot





TEST NUMBER: P592542

CATALOG NUMBER: HCC4W05D010BZ-HM40525850-41WDW

**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	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°	54864	54864	54864
5°	54739	54789	54789
10°	54095	54145	54095
15°	53454	53454	53454
20°	51245	51363	51428
25°	47933	48015	48137
30°	42956	43084	43084
35°	34889	35160	35220
40°	26310	26455	26535
45°	20147	20078	20078
50°	16618	16522	16522
55°	14258	14150	14150
60°	12705	12606	12606
65°	11966	11966	11966
70°	11144	11144	11144
75°	10103	10342	10103
80°	9518	9163	9518
85°	7925	7925	7925



TEST NUMBER: P592542  
 CATALOG NUMBER: HCC4W05D010BZ-HM40525850-41WDW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	41.9	6.1
10°-20°	117.3	17.1
20°-30°	161.2	23.5
30°-40°	144.9	21.1
40°-50°	91.5	13.3
50°-60°	59.8	8.7
60°-70°	40.5	5.9
70°-80°	22.8	3.3
80°-90°	6.4	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°	320.3	46.7
0°-40°	465.2	67.8
0°-60°	616.5	89.8
0°-90°	686.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	686.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	445	445	445	445	445	
5°	442	442	442	442	442	42
15°	419	419	419	419	419	117
25°	352	353	353	354	354	161
35°	232	233	234	234	234	144
45°	116	115	115	115	115	92
55°	66	66	66	66	66	60
65°	41	41	41	41	41	41
75°	21	22	22	22	21	23
85°	6	6	6	6	6	6
90°	0	0	0	0	0	



TEST NUMBER: P592542

CATALOG NUMBER: HCC4W05D010BZ-HM40525850-41WDW

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	444.8	444.8	444.8	444.8	444.8
2.5°	442.5	442.5	442.5	442.5	442.5
5°	442.1	442.1	442.5	442.5	442.5
7.5°	438.8	439.2	439.2	439.2	439.2
10°	431.9	431.9	432.3	432.3	431.9
12.5°	425.4	425.4	425.4	426.0	425.4
15°	418.6	418.6	418.6	418.6	418.6
17.5°	406.6	407.0	407.0	407.0	407.0
20°	390.4	391.3	391.3	391.8	391.8
22.5°	372.1	372.5	373.0	373.4	373.0
25°	352.2	352.8	352.8	353.7	353.7
27.5°	329.3	329.7	330.6	330.6	330.6
30°	301.6	302.0	302.5	302.5	302.5
32.5°	268.9	268.9	269.8	270.2	269.8
35°	231.7	232.6	233.5	234.4	233.9
37.5°	196.1	197.0	197.5	197.5	197.9
40°	163.4	164.3	164.3	165.3	164.8
42.5°	137.7	137.2	137.2	138.1	137.7
45°	115.5	115.1	115.1	115.1	115.1
47.5°	99.4	99.0	99.0	99.0	99.0
50°	86.6	86.1	86.1	86.1	86.1
52.5°	75.9	75.5	75.5	75.5	75.0
55°	66.3	66.3	65.8	66.3	65.8
57.5°	57.5	57.5	57.5	57.5	57.5
60°	51.5	51.1	51.1	51.1	51.1
62.5°	46.1	46.1	46.1	46.1	46.1
65°	41.0	41.0	41.0	41.0	41.0
67.5°	35.9	35.4	35.9	35.9	35.4
70°	30.9	30.4	30.9	30.9	30.9
72.5°	25.8	25.8	25.8	26.2	25.8
75°	21.2	21.7	21.7	21.7	21.2
77.5°	17.0	17.5	17.0	17.0	17.0
80°	13.4	12.9	12.9	12.9	13.4
82.5°	9.2	9.2	9.2	9.2	9.2
85°	5.6	5.6	5.6	5.6	5.6
87.5°	2.3	2.3	2.3	2.3	2.3
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)