

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: P592560

Luminaire Tested: **HCC4W05D010BZ-HM40525950-41WDW**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P592560  
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-HM40525950-41WDW  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

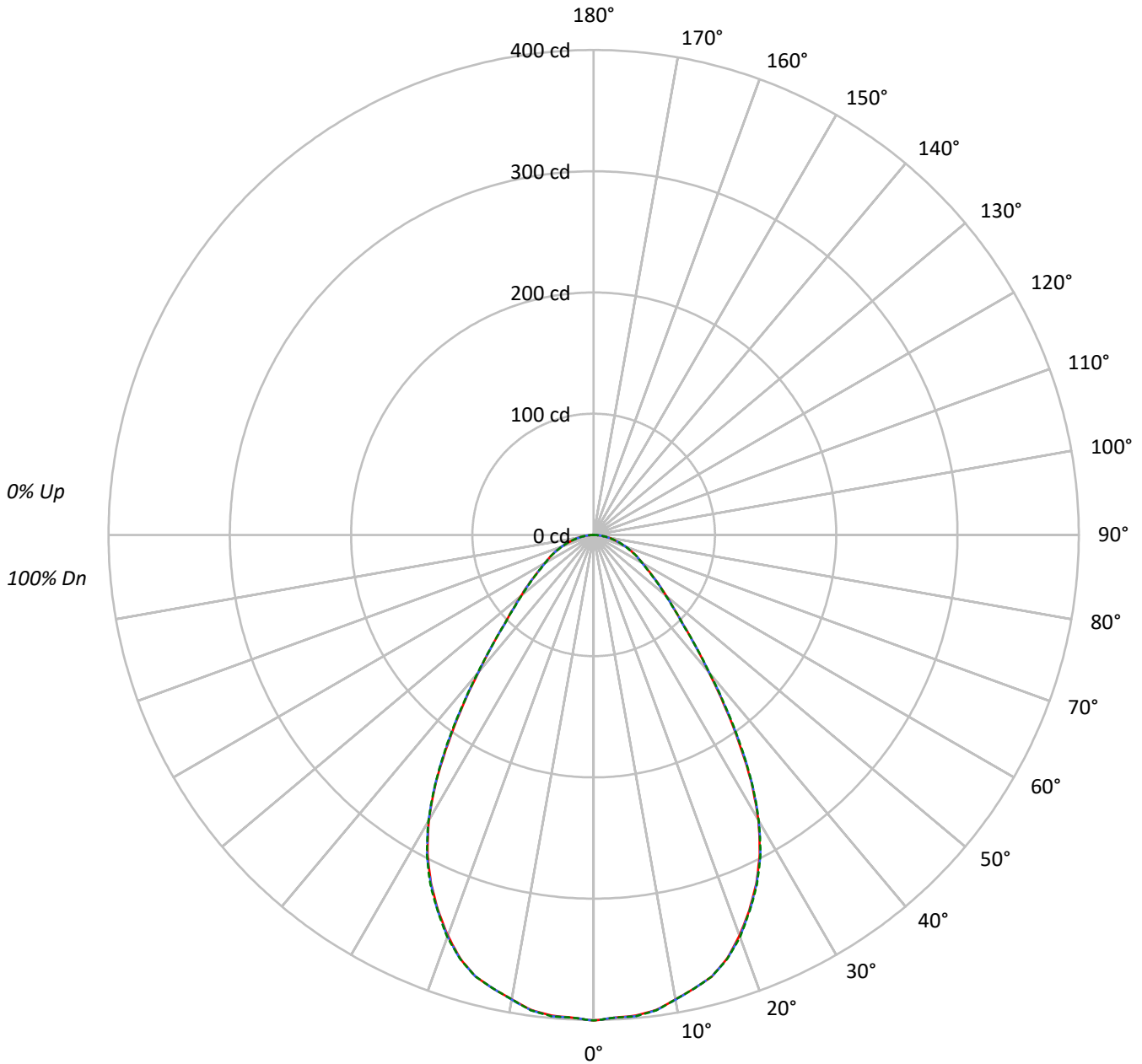
Lumens per Lamp: N/A  
Luminaire Lumens: 618.0 lumens  
Efficiency: N/A  
Efficacy: 103.0 lumens/watt  
Spacing Criteria (0/90/45): 1.06 / 1.07 / 1.04  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

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: P592560  
CATALOG NUMBER: HCC4W05D010BZ-HM40525950-41WDW

### Luminous Intensity Polar Plot



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



TEST NUMBER: P592560

CATALOG NUMBER: HCC4W05D010BZ-HM40525950-41WDW

**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			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°	49400	49400	49400
5°	49279	49341	49341
10°	48722	48759	48722
15°	48129	48129	48129
20°	46152	46257	46322
25°	43170	43224	43347
30°	38683	38797	38797
35°	31410	31651	31727
40°	23702	23830	23911
45°	18159	18072	18072
50°	14968	14872	14872
55°	12838	12731	12731
60°	11446	11372	11372
65°	10770	10770	10770
70°	10026	10026	10026
75°	9103	9293	9103
80°	8524	8240	8524
85°	7076	7076	7076



TEST NUMBER: P592560

CATALOG NUMBER: HCC4W05D010BZ-HM40525950-41WDW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	37.7	6.1
10°-20°	105.6	17.1
20°-30°	145.1	23.5
30°-40°	130.5	21.1
40°-50°	82.4	13.3
50°-60°	53.8	8.7
60°-70°	36.5	5.9
70°-80°	20.5	3.3
80°-90°	5.8	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°	288.5	46.7
0°-40°	418.9	67.8
0°-60°	555.2	89.8
0°-90°	618.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	618.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	400	400	400	400	400	
5°	398	398	398	398	398	38
15°	377	377	377	377	377	106
25°	317	318	318	318	318	145
35°	209	209	210	211	211	130
45°	104	104	104	104	104	83
55°	60	60	59	60	59	54
65°	37	37	37	37	37	37
75°	19	20	20	20	19	20
85°	5	5	5	5	5	6
90°	0	0	0	0	0	



TEST NUMBER: P592560

CATALOG NUMBER: HCC4W05D010BZ-HM40525950-41WDW

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	400.5	400.5	400.5	400.5	400.5
2.5°	398.5	398.5	398.5	398.5	398.5
5°	398.0	398.0	398.5	398.5	398.5
7.5°	395.2	395.5	395.5	395.5	395.5
10°	389.0	389.0	389.3	389.3	389.0
12.5°	383.2	383.2	383.2	383.5	383.2
15°	376.9	376.9	376.9	376.9	376.9
17.5°	366.2	366.5	366.5	366.5	366.5
20°	351.6	352.4	352.4	352.9	352.9
22.5°	335.1	335.4	335.8	336.3	335.8
25°	317.2	317.6	317.6	318.5	318.5
27.5°	296.5	296.9	297.7	297.7	297.7
30°	271.6	272.1	272.4	272.4	272.4
32.5°	242.1	242.1	243.0	243.3	243.0
35°	208.6	209.4	210.2	211.0	210.7
37.5°	176.6	177.5	177.9	177.9	178.3
40°	147.2	148.0	148.0	148.9	148.5
42.5°	123.9	123.6	123.6	124.4	123.9
45°	104.1	103.6	103.6	103.6	103.6
47.5°	89.6	89.1	89.1	89.1	89.1
50°	78.0	77.5	77.5	77.5	77.5
52.5°	68.4	68.0	68.0	68.0	67.5
55°	59.7	59.7	59.2	59.7	59.2
57.5°	51.9	51.9	51.9	51.9	51.9
60°	46.4	46.1	46.1	46.1	46.1
62.5°	41.4	41.4	41.4	41.4	41.4
65°	36.9	36.9	36.9	36.9	36.9
67.5°	32.3	31.9	32.3	32.3	31.9
70°	27.8	27.4	27.8	27.8	27.8
72.5°	23.3	23.3	23.3	23.6	23.3
75°	19.1	19.5	19.5	19.5	19.1
77.5°	15.3	15.8	15.3	15.3	15.3
80°	12.0	11.6	11.6	11.6	12.0
82.5°	8.3	8.3	8.3	8.3	8.3
85°	5.0	5.0	5.0	5.0	5.0
87.5°	2.0	2.0	2.0	2.0	2.0
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)