

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: P581059

Luminaire Tested: **HCC4S05D010BZ-HM40525927-41WDW**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P581059  
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: HCC4S05D010BZ-HM40525927-41WDW  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

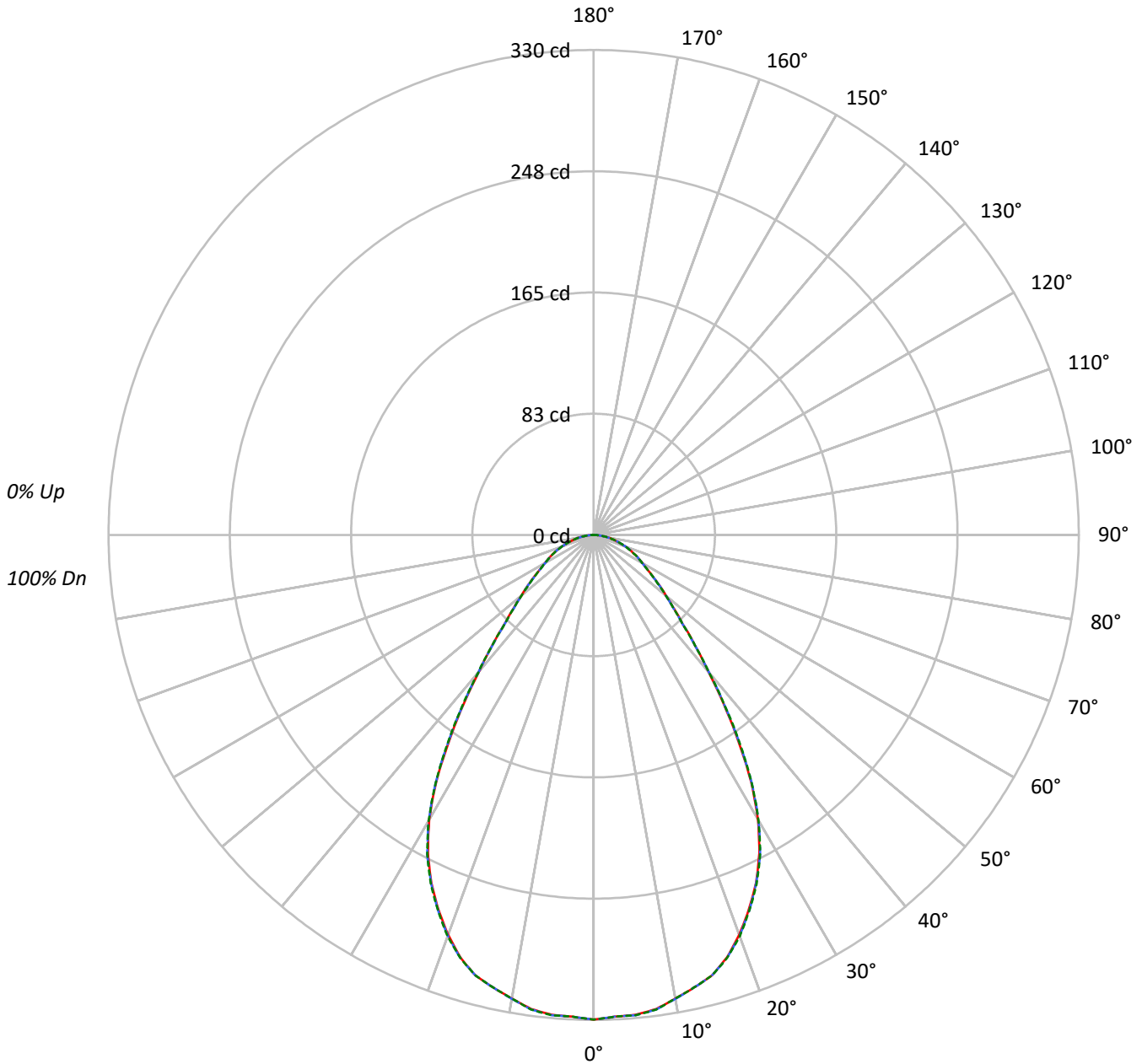
Lumens per Lamp: N/A  
Luminaire Lumens: 508.9 lumens  
Efficiency: N/A  
Efficacy: 84.8 lumens/watt  
Spacing Criteria (0/90/45): 1.06 / 1.07 / 1.04  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

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: P581059  
CATALOG NUMBER: HCC4S05D010BZ-HM40525927-41WDW

### Luminous Intensity Polar Plot





TEST NUMBER: P581059

CATALOG NUMBER: HCC4S05D010BZ-HM40525927-41WDW

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	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	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	68	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°	40679	40679	40679
5°	40587	40624	40624
10°	40117	40155	40117
15°	39637	39637	39637
20°	38000	38092	38145
25°	35548	35589	35685
30°	31847	31961	31961
35°	25854	26065	26110
40°	19515	19628	19676
45°	14949	14897	14897
50°	12319	12262	12262
55°	10559	10494	10494
60°	9424	9350	9350
65°	8873	8873	8873
70°	8259	8259	8259
75°	7482	7625	7482
80°	7032	6748	7032
85°	5802	5802	5802



TEST NUMBER: P581059  
 CATALOG NUMBER: HCC4S05D010BZ-HM40525927-41WDW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	31.1	6.1
10°-20°	87.0	17.1
20°-30°	119.5	23.5
30°-40°	107.5	21.1
40°-50°	67.9	13.3
50°-60°	44.3	8.7
60°-70°	30.1	5.9
70°-80°	16.9	3.3
80°-90°	4.7	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°	237.5	46.7
0°-40°	345.0	67.8
0°-60°	457.2	89.8
0°-90°	508.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	508.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	330	330	330	330	330	
5°	328	328	328	328	328	31
15°	310	310	310	310	310	87
25°	261	262	262	262	262	119
35°	172	172	173	174	173	107
45°	86	85	85	85	85	68
55°	49	49	49	49	49	44
65°	30	30	30	30	30	30
75°	16	16	16	16	16	17
85°	4	4	4	4	4	5
90°	0	0	0	0	0	



TEST NUMBER: P581059

CATALOG NUMBER: HCC4S05D010BZ-HM40525927-41WDW

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	329.8	329.8	329.8	329.8	329.8
2.5°	328.1	328.1	328.1	328.1	328.1
5°	327.8	327.8	328.1	328.1	328.1
7.5°	325.4	325.7	325.7	325.7	325.7
10°	320.3	320.3	320.6	320.6	320.3
12.5°	315.5	315.5	315.5	315.9	315.5
15°	310.4	310.4	310.4	310.4	310.4
17.5°	301.5	301.8	301.8	301.8	301.8
20°	289.5	290.2	290.2	290.6	290.6
22.5°	275.9	276.3	276.6	276.9	276.6
25°	261.2	261.5	261.5	262.2	262.2
27.5°	244.1	244.5	245.2	245.2	245.2
30°	223.6	224.0	224.4	224.4	224.4
32.5°	199.4	199.4	200.1	200.4	200.1
35°	171.7	172.4	173.1	173.8	173.4
37.5°	145.5	146.2	146.5	146.5	146.9
40°	121.2	121.9	121.9	122.6	122.2
42.5°	102.2	101.7	101.7	102.5	102.2
45°	85.7	85.4	85.4	85.4	85.4
47.5°	73.8	73.4	73.4	73.4	73.4
50°	64.2	63.9	63.9	63.9	63.9
52.5°	56.3	56.0	56.0	56.0	55.6
55°	49.1	49.1	48.8	49.1	48.8
57.5°	42.7	42.7	42.7	42.7	42.7
60°	38.2	37.9	37.9	37.9	37.9
62.5°	34.2	34.2	34.2	34.2	34.2
65°	30.4	30.4	30.4	30.4	30.4
67.5°	26.7	26.3	26.7	26.7	26.3
70°	22.9	22.6	22.9	22.9	22.9
72.5°	19.1	19.1	19.1	19.4	19.1
75°	15.7	16.0	16.0	16.0	15.7
77.5°	12.6	12.9	12.6	12.6	12.6
80°	9.9	9.5	9.5	9.5	9.9
82.5°	6.8	6.8	6.8	6.8	6.8
85°	4.1	4.1	4.1	4.1	4.1
87.5°	1.7	1.7	1.7	1.7	1.7
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)