

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: P581005

Luminaire Tested: **HCC4S05D010MW-HM40525830-41WDW**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P581005  
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: HCC4S05D010MW-HM40525830-41WDW  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

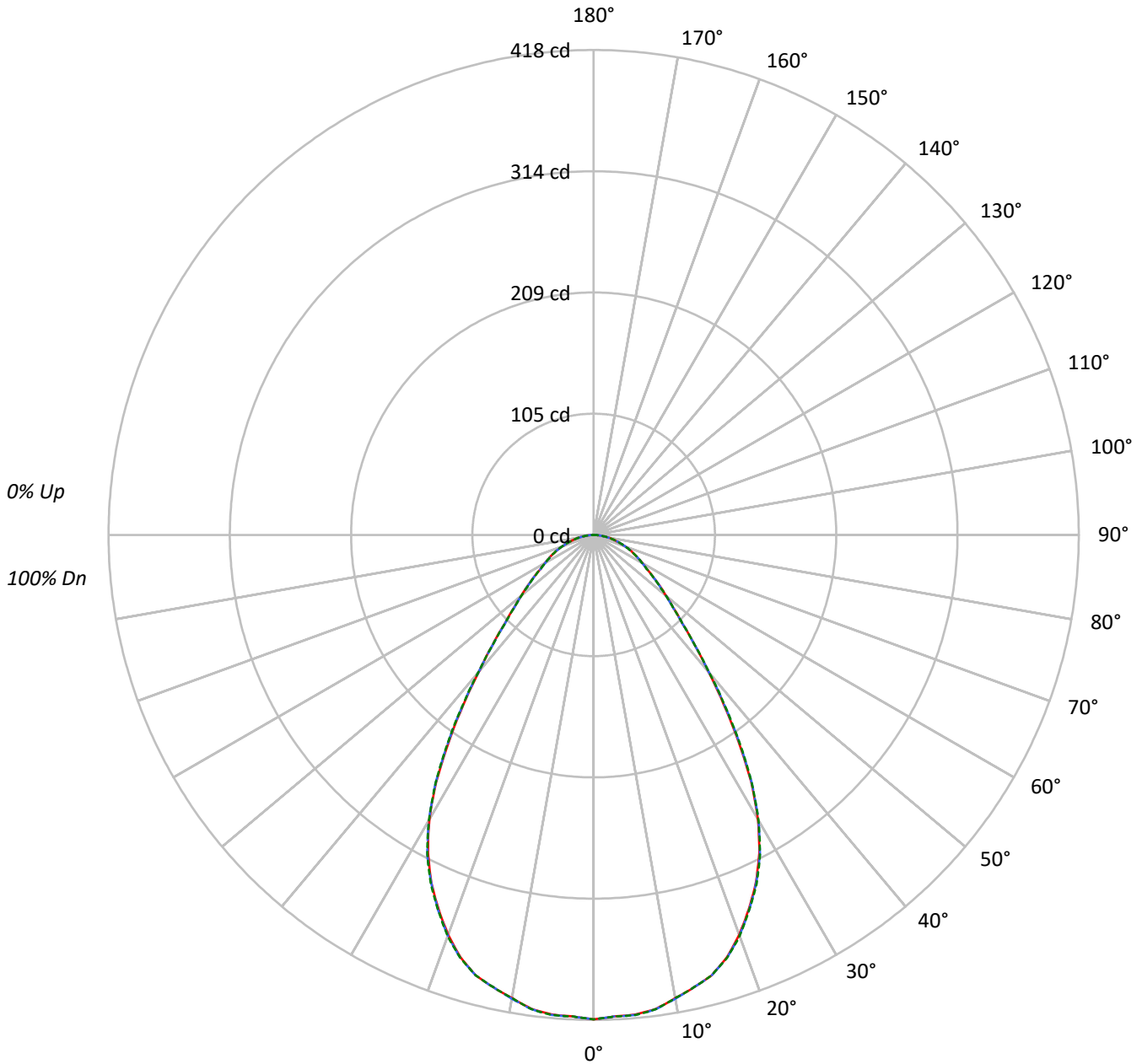
Lumens per Lamp: N/A  
Luminaire Lumens: 644.3 lumens  
Efficiency: N/A  
Efficacy: 107.4 lumens/watt  
Spacing Criteria (0/90/45): 1.06 / 1.07 / 1.04  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

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: P581005  
CATALOG NUMBER: HCC4S05D010MW-HM40525830-41WDW

### Luminous Intensity Polar Plot



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



TEST NUMBER: P581005

CATALOG NUMBER: HCC4S05D010MW-HM40525830-41WDW

**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	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°	51509	51509	51509
5°	51384	51433	51433
10°	50776	50838	50776
15°	50172	50172	50172
20°	48121	48226	48291
25°	45007	45062	45184
30°	40335	40449	40449
35°	32751	33007	33067
40°	24716	24861	24909
45°	18926	18857	18857
50°	15601	15505	15505
55°	13376	13311	13311
60°	11965	11841	11841
65°	11237	11237	11237
70°	10422	10422	10422
75°	9484	9674	9484
80°	8879	8595	8879
85°	7359	7359	7359



TEST NUMBER: P581005  
 CATALOG NUMBER: HCC4S05D010MW-HM40525830-41WDW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	39.3	6.1
10°-20°	110.1	17.1
20°-30°	151.3	23.5
30°-40°	136.0	21.1
40°-50°	86.0	13.3
50°-60°	56.1	8.7
60°-70°	38.0	5.9
70°-80°	21.4	3.3
80°-90°	6.0	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°	300.7	46.7
0°-40°	436.8	67.8
0°-60°	578.9	89.8
0°-90°	644.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	644.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	418	418	418	418	418	
5°	415	415	415	415	415	39
15°	393	393	393	393	393	110
25°	331	331	331	332	332	151
35°	218	218	219	220	220	135
45°	108	108	108	108	108	86
55°	62	62	62	62	62	56
65°	38	38	38	38	38	38
75°	20	20	20	20	20	21
85°	5	5	5	5	5	6
90°	0	0	0	0	0	



TEST NUMBER: P581005

CATALOG NUMBER: HCC4S05D010MW-HM40525830-41WDW

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	417.6	417.6	417.6	417.6	417.6
2.5°	415.4	415.4	415.4	415.4	415.4
5°	415.0	415.0	415.4	415.4	415.4
7.5°	412.0	412.3	412.3	412.3	412.3
10°	405.4	405.4	405.9	405.9	405.4
12.5°	399.4	399.4	399.4	399.9	399.4
15°	392.9	392.9	392.9	392.9	392.9
17.5°	381.7	382.2	382.2	382.2	382.2
20°	366.6	367.4	367.4	367.9	367.9
22.5°	349.2	349.7	350.1	350.6	350.1
25°	330.7	331.1	331.1	332.0	332.0
27.5°	309.1	309.5	310.4	310.4	310.4
30°	283.2	283.5	284.0	284.0	284.0
32.5°	252.4	252.4	253.3	253.8	253.3
35°	217.5	218.3	219.2	220.1	219.6
37.5°	184.1	185.0	185.5	185.5	185.9
40°	153.5	154.4	154.4	155.2	154.7
42.5°	129.3	128.8	128.8	129.7	129.3
45°	108.5	108.1	108.1	108.1	108.1
47.5°	93.4	93.0	93.0	93.0	93.0
50°	81.3	80.8	80.8	80.8	80.8
52.5°	71.3	70.9	70.9	70.9	70.5
55°	62.2	62.2	61.9	62.2	61.9
57.5°	54.0	54.0	54.0	54.0	54.0
60°	48.5	48.0	48.0	48.0	48.0
62.5°	43.2	43.2	43.2	43.2	43.2
65°	38.5	38.5	38.5	38.5	38.5
67.5°	33.7	33.3	33.7	33.7	33.3
70°	28.9	28.5	28.9	28.9	28.9
72.5°	24.2	24.2	24.2	24.6	24.2
75°	19.9	20.3	20.3	20.3	19.9
77.5°	16.0	16.5	16.0	16.0	16.0
80°	12.5	12.1	12.1	12.1	12.5
82.5°	8.6	8.6	8.6	8.6	8.6
85°	5.2	5.2	5.2	5.2	5.2
87.5°	2.2	2.2	2.2	2.2	2.2
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)