

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: P580273

Luminaire Tested: **HCC4W30D010MW-HM43040830-41WDBB**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P580273  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-11)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/9/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC4W30D010MW-HM43040830-41WDBB  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, BLACK BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

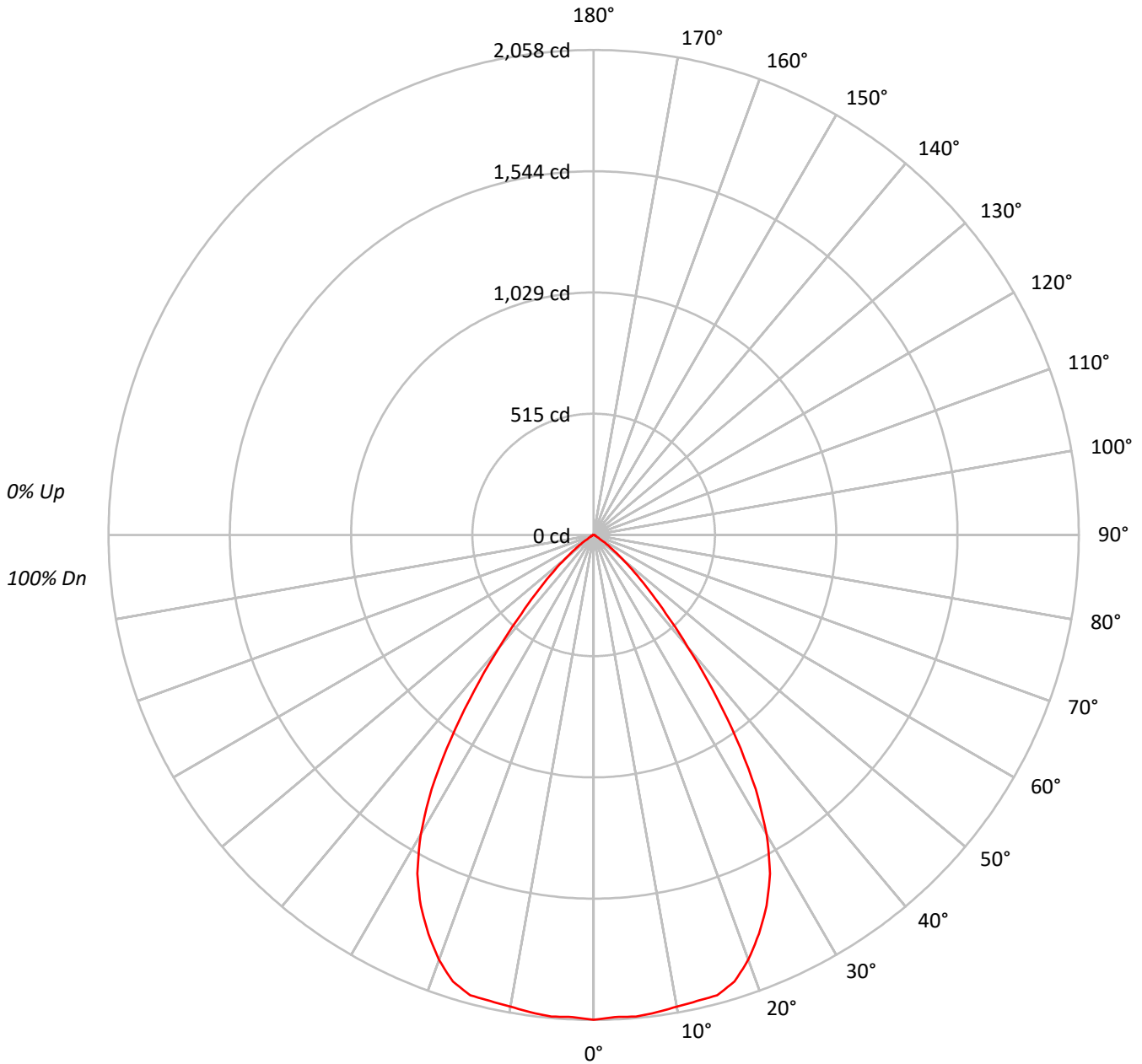
Lumens per Lamp: N/A  
Luminaire Lumens: 2544.8 lumens  
Efficiency: N/A  
Efficacy: 90.9 lumens/watt  
Spacing Criteria (0/90/45): 1.1 / 1.1 / 1.03  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 28  
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: P580273  
CATALOG NUMBER: HCC4W30D010MW-HM43040830-41WDBB

### Luminous Intensity Polar Plot



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



TEST NUMBER: P580273

CATALOG NUMBER: HCC4W30D010MW-HM43040830-41WDBB

**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	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	113	110	107	105	111	108	106	103	104	102	100	100	99	97	97	96	94	93																												
2	107	102	97	94	105	100	96	93	97	93	91	94	91	89	91	89	87	85																												
3	101	94	89	84	99	93	88	84	90	86	82	87	84	81	85	82	80	78																												
4	95	87	81	77	93	86	80	76	84	79	75	82	78	74	80	76	73	72																												
5	90	81	75	70	88	80	74	70	78	73	69	76	72	68	75	71	68	66																												
6	85	75	69	64	83	74	68	64	73	67	63	71	67	63	70	66	62	61																												
7	80	70	64	59	79	69	63	59	68	63	59	67	62	58	66	61	58	56																												
8	76	65	59	55	74	65	59	54	64	58	54	63	58	54	62	57	54	52																												
9	72	61	55	51	71	61	55	51	60	54	50	59	54	50	58	53	50	49																												
10	68	58	51	47	67	57	51	47	56	51	47	55	50	47	55	50	47	45																												

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

	0°
0°	253796
5°	254035
10°	254517
15°	258241
20°	251812
25°	236251
30°	208969
35°	158889
40°	100120
45°	57477
50°	30492
55°	12666
60°	3404
65°	2860
70°	2128
75°	1859
80°	1350
85°	2689



TEST NUMBER: P580273  
 CATALOG NUMBER: HCC4W30D010MW-HM43040830-41WDBB

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	195.1	7.7
10°-20°	566.3	22.3
20°-30°	790.3	31.1
30°-40°	650.3	25.6
40°-50°	267.9	10.5
50°-60°	60.4	2.4
60°-70°	9.7	0.4
70°-80°	3.6	0.1
80°-90°	1.3	0.1
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°	1551.7	61.0
0°-40°	2202.0	86.5
0°-60°	2530.2	99.4
0°-90°	2544.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2544.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2058	
5°	2052	195
15°	2022	566
25°	1736	790
35°	1055	650
45°	330	268
55°	59	60
65°	10	10
75°	4	4
85°	2	1
90°	0	



TEST NUMBER: P580273  
CATALOG NUMBER: HCC4W30D010MW-HM43040830-41WDBB

**CANDELA DISTRIBUTION (FULL):**

0°	
0°	2057.6
2.5°	2047.8
5°	2051.7
7.5°	2043.8
10°	2032.1
12.5°	2026.2
15°	2022.3
17.5°	1987.0
20°	1918.4
22.5°	1832.0
25°	1735.9
27.5°	1620.1
30°	1467.2
32.5°	1278.9
35°	1055.2
37.5°	829.8
40°	621.8
42.5°	453.1
45°	329.5
47.5°	235.4
50°	158.9
52.5°	100.1
55°	58.9
57.5°	29.4
60°	13.8
62.5°	11.7
65°	9.8
67.5°	7.9
70°	5.9
72.5°	3.9
75°	3.9
77.5°	1.9
80°	1.9
82.5°	1.9
85°	1.9
87.5°	0.0
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)