

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: P580291

Luminaire Tested: **HCC4W30D010BZ-HM43040835-41WDBB**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P580291  
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: HCC4W30D010BZ-HM43040835-41WDBB  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, BLACK BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

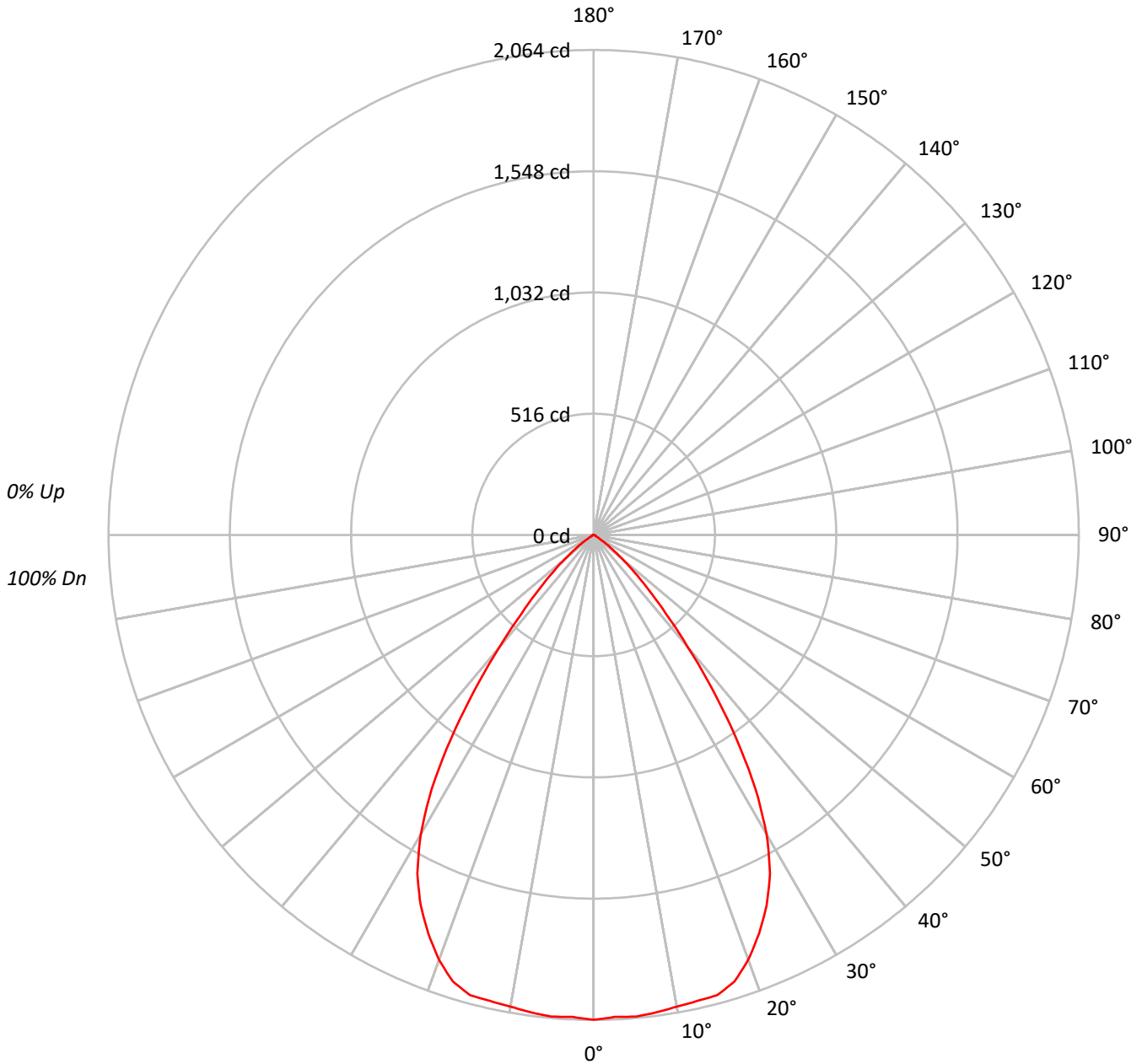
Lumens per Lamp: N/A  
Luminaire Lumens: 2552.1 lumens  
Efficiency: N/A  
Efficacy: 91.1 lumens/watt  
Spacing Criteria (0/90/45): 1.1 / 1.1 / 1.03  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

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: P580291  
CATALOG NUMBER: HCC4W30D010BZ-HM43040835-41WDBB

### Luminous Intensity Polar Plot





TEST NUMBER: P580291

CATALOG NUMBER: HCC4W30D010BZ-HM43040835-41WDBB

**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
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°	254524
5°	254765
10°	255256
15°	258969
20°	252521
25°	236917
30°	209567
35°	159356
40°	100410
45°	57651
50°	30588
55°	12688
60°	3404
65°	2860
70°	2128
75°	1859
80°	1350
85°	2689



TEST NUMBER: P580291  
 CATALOG NUMBER: HCC4W30D010BZ-HM43040835-41WDBB

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	195.7	7.7
10°-20°	567.9	22.3
20°-30°	792.5	31.1
30°-40°	652.2	25.6
40°-50°	268.7	10.5
50°-60°	60.6	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°	1556.1	61.0
0°-40°	2208.3	86.5
0°-60°	2537.5	99.4
0°-90°	2552.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2552.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2064	
5°	2058	196
15°	2028	568
25°	1741	793
35°	1058	652
45°	330	269
55°	59	61
65°	10	10
75°	4	4
85°	2	1
90°	0	



TEST NUMBER: P580291  
CATALOG NUMBER: HCC4W30D010BZ-HM43040835-41WDBB

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2063.5
2.5°	2053.6
5°	2057.6
7.5°	2049.7
10°	2038.0
12.5°	2032.0
15°	2028.0
17.5°	1992.7
20°	1923.8
22.5°	1837.3
25°	1740.8
27.5°	1624.9
30°	1471.4
32.5°	1282.5
35°	1058.3
37.5°	832.1
40°	623.6
42.5°	454.4
45°	330.5
47.5°	236.1
50°	159.4
52.5°	100.3
55°	59.0
57.5°	29.6
60°	13.8
62.5°	11.8
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)