

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: P592729

Luminaire Tested: **HCC4W30D010BZ-HM43040850-41WDWB**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P592729  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-10)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/9/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC4W30D010BZ-HM43040850-41WDWB  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, WHITE BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

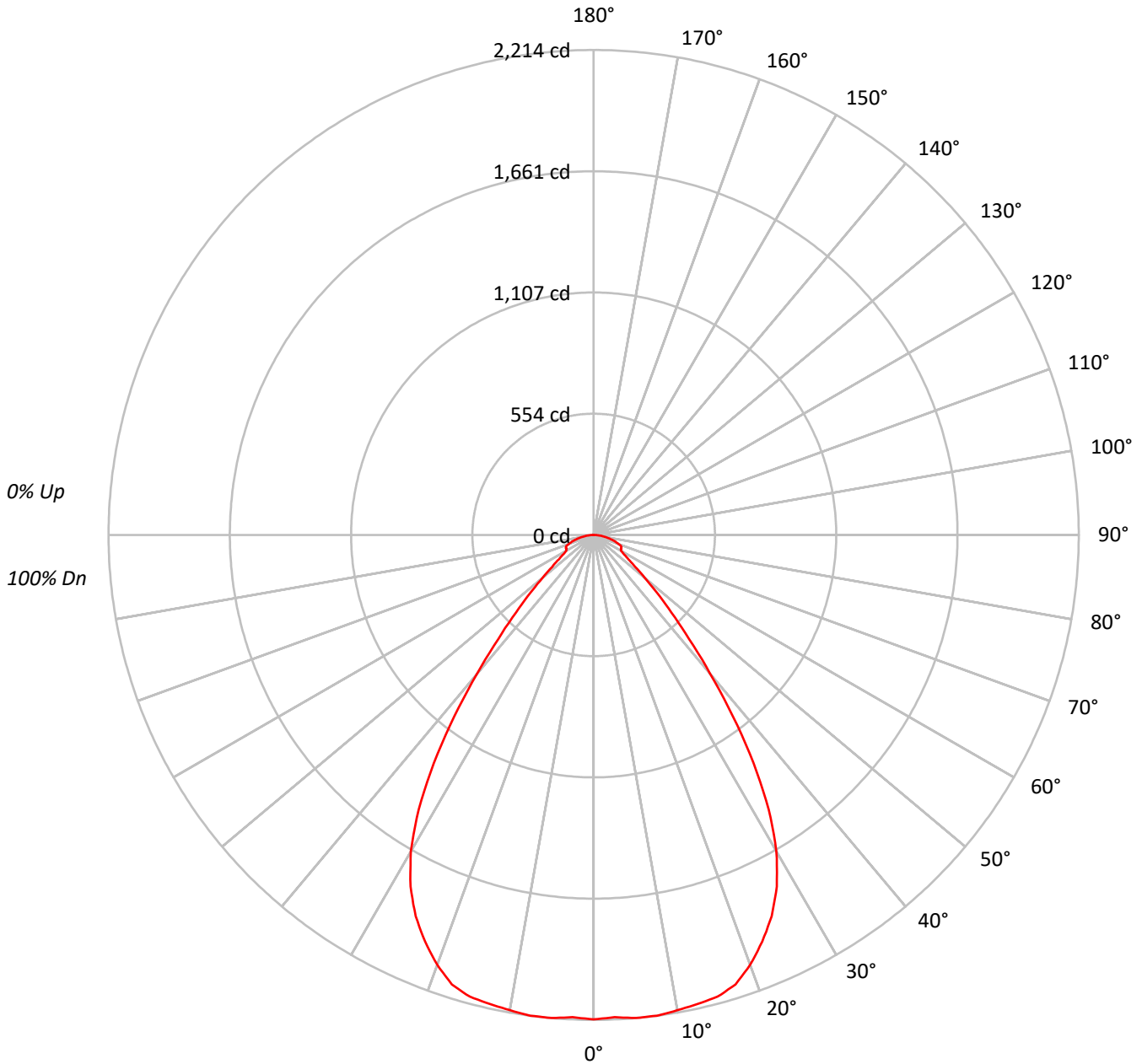
Lumens per Lamp: N/A  
Luminaire Lumens: 3323.0 lumens  
Efficiency: N/A  
Efficacy: 118.7 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.14 / 1.07  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

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: P592729  
CATALOG NUMBER: HCC4W30D010BZ-HM43040850-41WDWB

### Luminous Intensity Polar Plot





TEST NUMBER: P592729

CATALOG NUMBER: HCC4W30D010BZ-HM43040850-41WDWB

**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	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90			
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	80			
3	98	89	83	78	95	88	82	78	85	80	76	83	78	75	80	77	74	72			
4	91	82	75	70	89	81	74	69	78	73	69	76	72	68	74	70	67	65			
5	86	75	68	63	84	74	68	63	72	67	62	71	65	61	69	64	61	59			
6	80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	59	56	54			
7	76	64	57	52	74	64	57	52	62	56	52	61	56	51	60	55	51	49			
8	71	60	53	48	70	59	53	48	58	52	48	57	51	47	56	51	47	46			
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42			
10	64	52	46	41	62	52	45	41	51	45	41	50	45	41	49	44	41	39			

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

	0°
0°	272804
5°	274093
10°	275972
15°	278737
20°	274101
25°	261483
30°	237569
35°	191625
40°	132967
45°	87288
50°	58489
55°	41633
60°	35573
65°	40860
70°	43818
75°	42177
80°	38073
85°	34956



TEST NUMBER: P592729

CATALOG NUMBER: HCC4W30D010BZ-HM43040850-41WDWB

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	211.0	6.3
10°-20°	613.2	18.5
20°-30°	876.1	26.4
30°-40°	782.6	23.6
40°-50°	401.4	12.1
50°-60°	182.5	5.5
60°-70°	136.1	4.1
70°-80°	92.6	2.8
80°-90°	27.4	0.8
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°	1700.3	51.2
0°-40°	2482.9	74.7
0°-60°	3066.9	92.3
0°-90°	3323.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3323.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2212	
5°	2214	211
15°	2183	613
25°	1921	876
35°	1273	783
45°	500	401
55°	194	182
65°	140	136
75°	88	93
85°	25	27
90°	0	



TEST NUMBER: P592729

CATALOG NUMBER: HCC4W30D010BZ-HM43040850-41WDWB

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2211.7
2.5°	2203.4
5°	2213.7
7.5°	2213.7
10°	2203.4
12.5°	2193.2
15°	2182.8
17.5°	2152.0
20°	2088.2
22.5°	2009.9
25°	1921.3
27.5°	1810.1
30°	1668.0
32.5°	1486.8
35°	1272.6
37.5°	1044.1
40°	825.8
42.5°	644.5
45°	500.4
47.5°	391.3
50°	304.8
52.5°	238.9
55°	193.6
57.5°	162.7
60°	144.2
62.5°	140.0
65°	140.0
67.5°	135.9
70°	121.5
72.5°	105.0
75°	88.5
77.5°	70.0
80°	53.6
82.5°	39.1
85°	24.7
87.5°	10.3
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)