

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: **HCC4S30D010BZ-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: HCC4S30D010BZ-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**

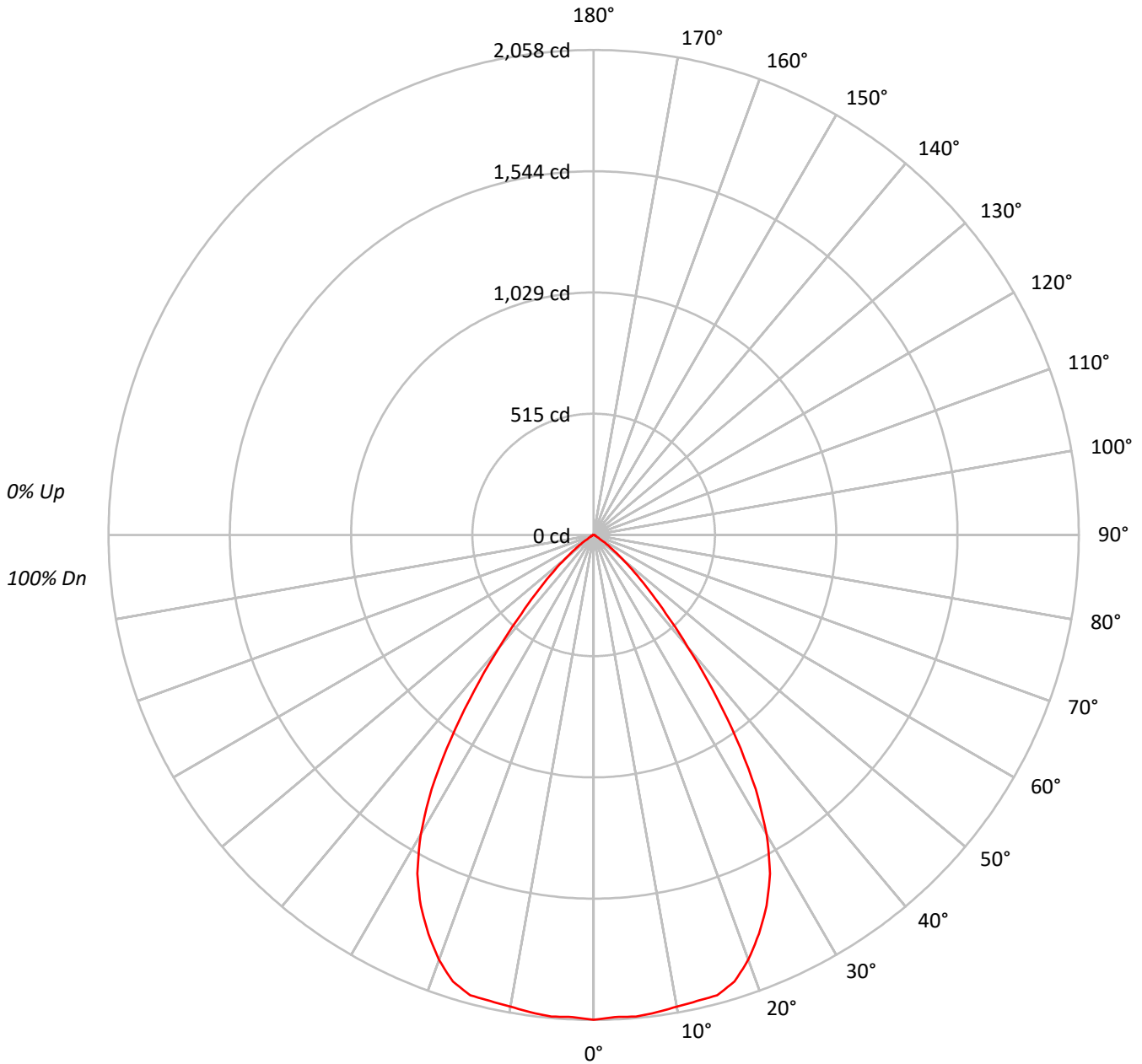
Lumens per Lamp: N/A  
Luminaire Lumens: 2544.8 lumens  
Efficiency: N/A  
Efficacy: 90.9 lumens/watt  
Spacing Criteria (0/90/45): 1.1 / 1.1 / 1.03  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

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



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### Luminous Intensity Polar Plot



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**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	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



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**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	



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**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

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Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9

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— 0°-180°

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(END OF REPORT)