

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: P580587

Luminaire Tested: **HCC4S40D010BZ-HM43040835-41WDC**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P580587  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-7)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/9/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC4S40D010BZ-HM43040835-41WDC  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, SPECULAR TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

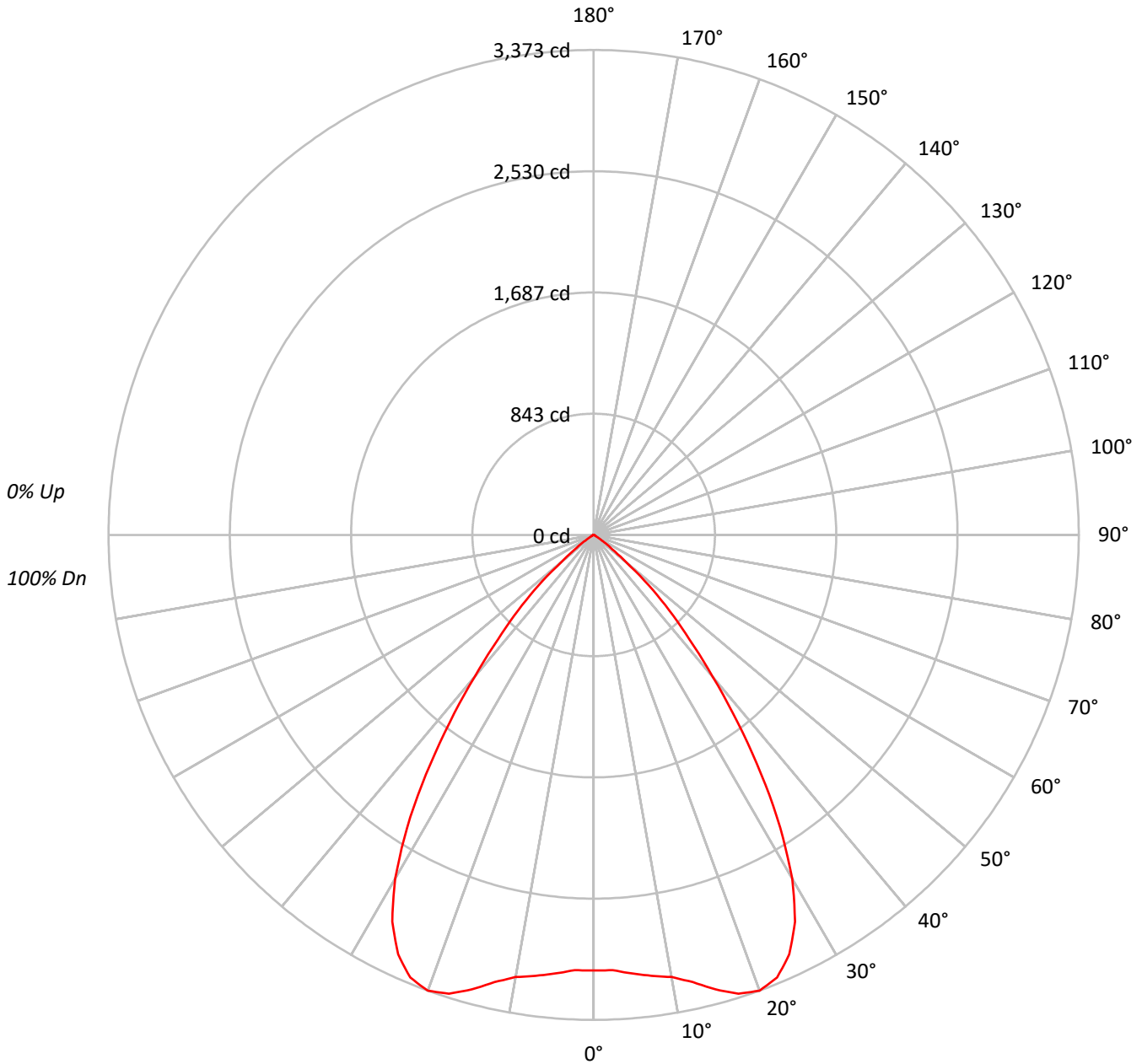
Lumens per Lamp: N/A  
Luminaire Lumens: 4626.0 lumens  
Efficiency: N/A  
Efficacy: 112.8 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.11  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 41  
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									
RC	80									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	110	108	105	103	104	102	100	100	98	97	97	95	94	92																			
2	107	101	97	93	104	100	96	92	96	93	90	93	91	88	91	88	86	85																			
3	101	93	88	84	98	92	87	83	89	85	82	87	83	80	85	82	79	77																			
4	95	86	80	76	93	85	79	75	83	78	74	81	77	73	79	75	72	71																			
5	89	80	73	69	87	79	73	68	77	72	68	75	71	67	74	70	66	65																			
6	84	74	67	63	82	73	67	62	72	66	62	70	65	62	69	65	61	60																			
7	79	69	62	57	78	68	62	57	67	61	57	65	60	57	64	60	56	55																			
8	75	64	57	53	73	63	57	53	62	57	53	61	56	52	60	56	52	51																			
9	70	60	53	49	69	59	53	49	58	53	49	57	52	48	56	52	48	47																			
10	67	56	50	45	66	55	49	45	55	49	45	54	49	45	53	48	45	43																			

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

	0°
0°	373700
5°	379189
10°	391076
15°	417875
20°	442798
25°	437946
30°	393071
35°	305928
40°	207244
45°	129397
50°	55994
55°	18752
60°	4712
65°	3181
70°	1984
75°	1287
80°	1918
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	294.2	6.4
10°-20°	929.0	20.1
20°-30°	1455.5	31.5
30°-40°	1256.2	27.2
40°-50°	577.7	12.5
50°-60°	98.1	2.1
60°-70°	11.1	0.2
70°-80°	4.0	0.1
80°-90°	0.4	0.0
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°	2678.7	57.9
0°-40°	3934.9	85.1
0°-60°	4610.6	99.7
0°-90°	4626.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4626.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3030	
5°	3062	294
15°	3272	929
25°	3218	1456
35°	2032	1256
45°	742	578
55°	87	98
65°	11	11
75°	3	4
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	3029.7
2.5°	3029.7
5°	3062.5
7.5°	3092.5
10°	3122.4
12.5°	3185.2
15°	3272.4
17.5°	3346.1
20°	3373.4
22.5°	3332.5
25°	3217.9
27.5°	3032.5
30°	2759.8
32.5°	2416.2
35°	2031.7
37.5°	1644.4
40°	1287.1
42.5°	984.5
45°	741.8
47.5°	520.8
50°	291.8
52.5°	160.9
55°	87.2
57.5°	43.6
60°	19.1
62.5°	13.7
65°	10.9
67.5°	8.2
70°	5.5
72.5°	5.5
75°	2.7
77.5°	2.7
80°	2.7
82.5°	0.0
85°	0.0
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)