

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: P580662

Luminaire Tested: **HCC4S40D010BZ-HM43040935-41PSMDW**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P580662  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-12)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/9/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC4S40D010BZ-HM43040935-41PSMDW  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" PLASTIC TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

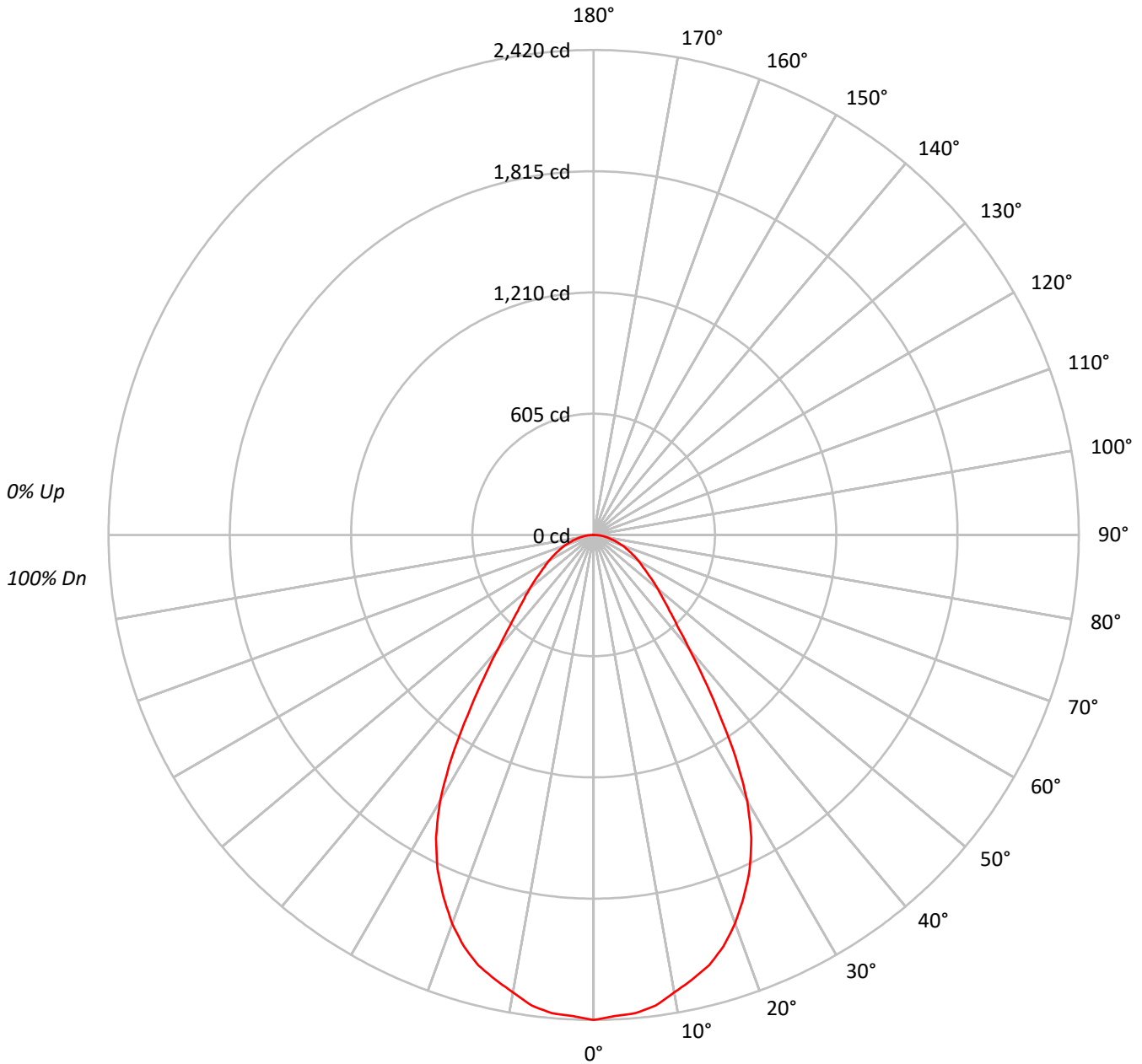
Lumens per Lamp: N/A  
Luminaire Lumens: 3436.6 lumens  
Efficiency: N/A  
Efficacy: 83.8 lumens/watt  
Spacing Criteria (0/90/45): 1.03 / 1.03 / 0.99  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

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				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	111	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89		
2	103	97	91	87	101	95	90	86	92	88	84	89	85	82	86	83	80	78		
3	96	88	81	76	94	86	80	75	84	78	74	81	77	73	79	75	72	70		
4	90	80	73	68	88	79	72	67	77	71	66	74	69	65	72	68	65	63		
5	84	74	66	61	82	72	66	60	71	64	60	69	63	59	67	62	59	57		
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	53	52		
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47		
8	70	58	51	46	68	58	51	46	56	50	46	55	50	45	54	49	45	44		
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	40		
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	37		

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

	0°
0°	298496
5°	296640
10°	290326
15°	283908
20°	270780
25°	250663
30°	218013
35°	164641
40°	119329
45°	93254
50°	79712
55°	68965
60°	63548
65°	58139
70°	54348
75°	49802
80°	46597
85°	44721



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	226.3	6.6
10°-20°	622.8	18.1
20°-30°	837.4	24.4
30°-40°	688.6	20.0
40°-50°	422.9	12.3
50°-60°	292.7	8.5
60°-70°	199.5	5.8
70°-80°	111.2	3.2
80°-90°	35.4	1.0
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°	1686.5	49.1
0°-40°	2375.0	69.1
0°-60°	3090.6	89.9
0°-90°	3436.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3436.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2420	
5°	2396	226
15°	2223	623
25°	1842	837
35°	1093	689
45°	535	423
55°	321	293
65°	199	199
75°	104	111
85°	32	35
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2420.0
2.5°	2403.1
5°	2395.8
7.5°	2369.0
10°	2318.0
12.5°	2271.8
15°	2223.3
17.5°	2152.8
20°	2062.9
22.5°	1956.0
25°	1841.8
27.5°	1703.2
30°	1530.7
32.5°	1319.4
35°	1093.4
37.5°	899.0
40°	741.1
42.5°	619.6
45°	534.6
47.5°	468.9
50°	415.4
52.5°	366.9
55°	320.7
57.5°	286.8
60°	257.6
62.5°	228.3
65°	199.2
67.5°	175.0
70°	150.7
72.5°	126.3
75°	104.5
77.5°	82.6
80°	65.6
82.5°	48.7
85°	31.6
87.5°	17.0
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)