

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: P581023

Luminaire Tested: **HCC4S05D010MW-HM40525835-41WDW**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P581023  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-9)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/9/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC4S05D010MW-HM40525835-41WDW  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

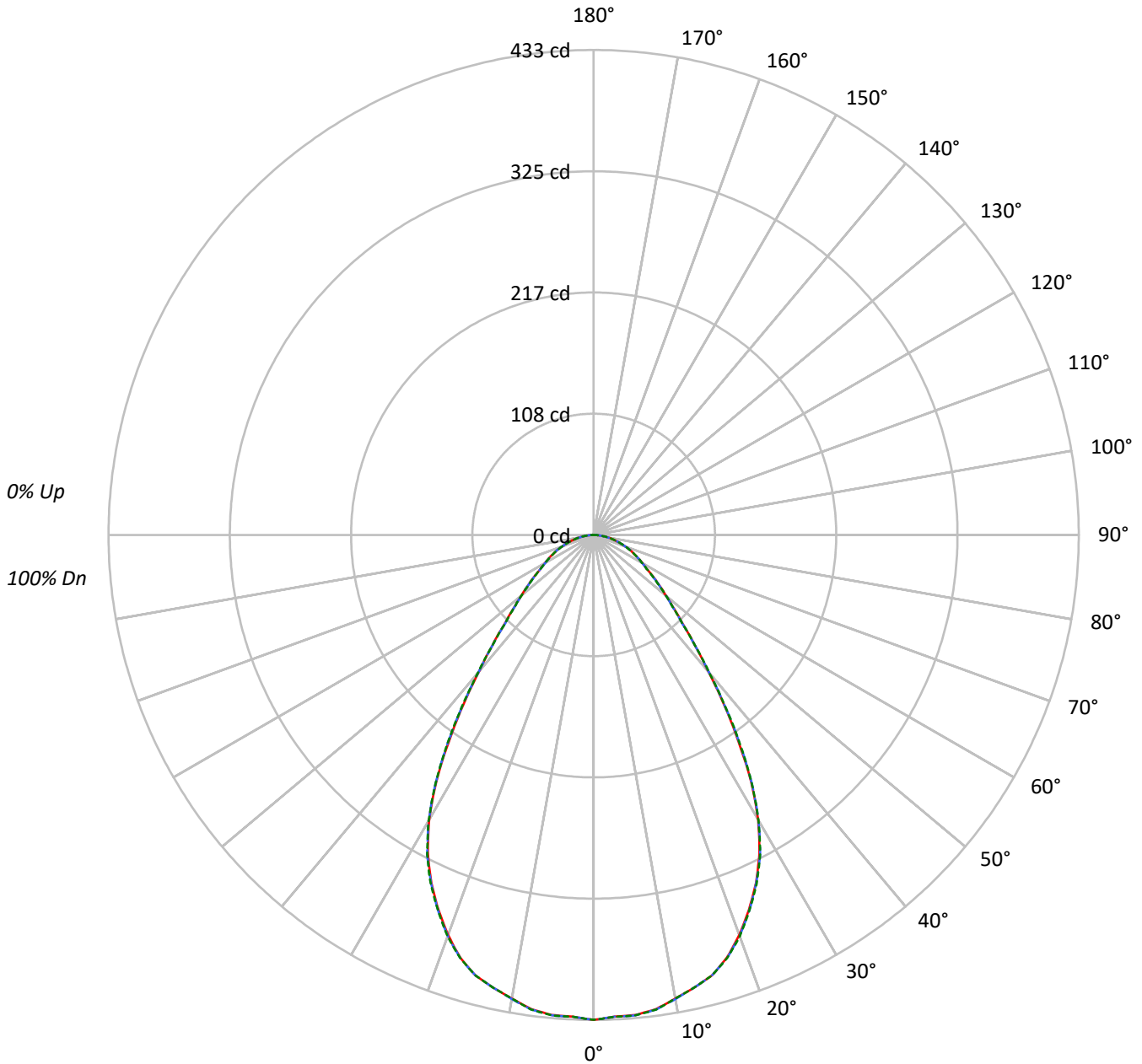
Lumens per Lamp: N/A  
Luminaire Lumens: 667.8 lumens  
Efficiency: N/A  
Efficacy: 111.3 lumens/watt  
Spacing Criteria (0/90/45): 1.06 / 1.07 / 1.04  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 6  
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	111	107	104	101	108	105	102	99	101	98	96	97	95	93	94	92	90	89																			
2	103	97	91	87	101	95	90	86	91	87	84	88	85	82	85	83	80	78																			
3	96	87	81	76	94	86	80	75	83	78	74	81	76	72	78	74	71	69																			
4	90	80	72	67	87	78	72	66	76	70	66	74	69	65	72	67	64	62																			
5	84	73	65	60	82	72	65	59	70	64	59	68	63	58	66	62	58	56																			
6	78	67	59	54	77	66	59	54	64	58	53	63	57	53	61	56	53	51																			
7	73	62	54	49	72	61	54	49	60	53	49	58	53	48	57	52	48	46																			
8	69	57	50	45	68	57	50	45	55	49	45	54	49	44	53	48	44	42																			
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	45	41	39																			
10	61	50	43	38	60	49	43	38	48	42	38	48	42	38	47	42	38	36																			

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

	0°	45°	90°
0°	53396	53396	53396
5°	53266	53316	53316
10°	52642	52692	52642
15°	52024	52024	52024
20°	49879	49998	50063
25°	46654	46708	46831
30°	41802	41931	41931
35°	33940	34211	34271
40°	25602	25747	25827
45°	19624	19537	19537
50°	16157	16081	16081
55°	13871	13784	13784
60°	12384	12261	12261
65°	11616	11616	11616
70°	10855	10855	10855
75°	9865	10056	9865
80°	9163	8950	9163
85°	7501	7501	7501



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	40.8	6.1
10°-20°	114.1	17.1
20°-30°	156.8	23.5
30°-40°	141.0	21.1
40°-50°	89.1	13.3
50°-60°	58.1	8.7
60°-70°	39.4	5.9
70°-80°	22.2	3.3
80°-90°	6.2	0.9
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°	311.8	46.7
0°-40°	452.8	67.8
0°-60°	600.0	89.8
0°-90°	667.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	667.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	433	433	433	433	433	
5°	430	430	431	431	431	41
15°	407	407	407	407	407	114
25°	343	343	343	344	344	156
35°	225	226	227	228	228	140
45°	112	112	112	112	112	89
55°	64	64	64	64	64	58
65°	40	40	40	40	40	40
75°	21	21	21	21	21	22
85°	5	5	5	5	5	6
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	432.9	432.9	432.9	432.9	432.9
2.5°	430.6	430.6	430.6	430.6	430.6
5°	430.2	430.2	430.6	430.6	430.6
7.5°	427.0	427.4	427.4	427.4	427.4
10°	420.3	420.3	420.7	420.7	420.3
12.5°	414.0	414.0	414.0	414.5	414.0
15°	407.4	407.4	407.4	407.4	407.4
17.5°	395.7	396.1	396.1	396.1	396.1
20°	380.0	380.9	380.9	381.4	381.4
22.5°	362.1	362.5	363.0	363.4	363.0
25°	342.8	343.2	343.2	344.1	344.1
27.5°	320.4	320.9	321.8	321.8	321.8
30°	293.5	294.0	294.4	294.4	294.4
32.5°	261.7	261.7	262.5	263.0	262.5
35°	225.4	226.3	227.2	228.0	227.6
37.5°	190.9	191.8	192.3	192.3	192.7
40°	159.0	159.9	159.9	160.8	160.4
42.5°	133.9	133.5	133.5	134.4	133.9
45°	112.5	112.0	112.0	112.0	112.0
47.5°	96.8	96.4	96.4	96.4	96.4
50°	84.2	83.8	83.8	83.8	83.8
52.5°	73.9	73.4	73.4	73.4	73.0
55°	64.5	64.5	64.1	64.5	64.1
57.5°	56.0	56.0	56.0	56.0	56.0
60°	50.2	49.7	49.7	49.7	49.7
62.5°	44.8	44.8	44.8	44.8	44.8
65°	39.8	39.8	39.8	39.8	39.8
67.5°	35.0	34.5	35.0	35.0	34.5
70°	30.1	29.6	30.1	30.1	30.1
72.5°	25.1	25.1	25.1	25.5	25.1
75°	20.7	21.1	21.1	21.1	20.7
77.5°	16.6	17.0	16.6	16.6	16.6
80°	12.9	12.6	12.6	12.6	12.9
82.5°	9.0	9.0	9.0	9.0	9.0
85°	5.3	5.3	5.3	5.3	5.3
87.5°	2.3	2.3	2.3	2.3	2.3
90°	0.0	0.0	0.0	0.0	0.0

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— 0°-180°    - - 45°-225°    - - - - 90°-270°

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