

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: P581053

Luminaire Tested: **HCC4W05D010BZ-HM40525927-41MDC**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P581053  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-4)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/9/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC4W05D010BZ-HM40525927-41MDC  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" MEDIUM DISTRIBUTION, SPECULAR TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

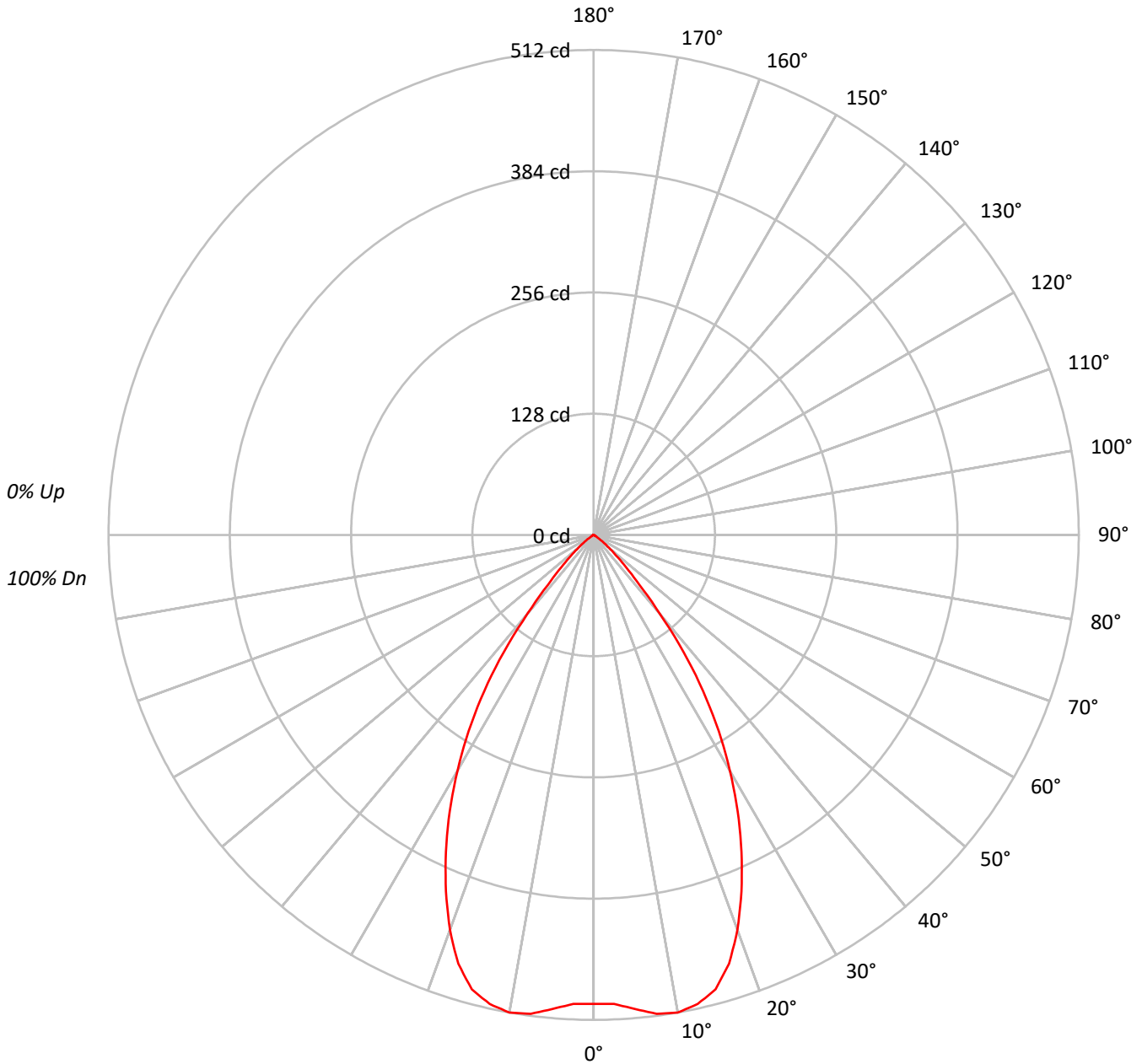
Lumens per Lamp: N/A  
Luminaire Lumens: 527.3 lumens  
Efficiency: N/A  
Efficacy: 87.9 lumens/watt  
Spacing Criteria (0/90/45): 1 / 1 / 0.96  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

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	113	111	108	106	111	108	106	104	104	103	101	101	99	98	97	96	95	93																			
2	108	103	99	95	105	101	97	94	98	95	92	95	92	90	92	90	88	86																			
3	102	95	90	86	100	94	89	86	91	87	84	89	86	83	87	84	82	80																			
4	97	89	83	79	95	88	82	78	86	81	77	84	80	77	82	78	76	74																			
5	91	83	77	72	90	82	76	72	80	75	72	78	74	71	77	73	70	69																			
6	87	78	71	67	85	77	71	67	75	70	66	74	69	66	72	68	65	64																			
7	82	73	66	62	81	72	66	62	71	65	62	69	65	61	68	64	61	60																			
8	78	68	62	58	77	68	62	58	67	61	57	65	61	57	65	60	57	56																			
9	74	64	58	54	73	64	58	54	63	57	54	62	57	54	61	57	53	52																			
10	71	61	55	51	69	60	54	51	59	54	50	58	54	50	58	53	50	49																			

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

	0°
0°	61081
5°	62206
10°	64127
15°	63414
20°	58228
25°	50233
30°	40934
35°	30311
40°	17406
45°	8408
50°	4011
55°	1398
60°	493
65°	292
70°	252
75°	143
80°	0
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	48.3	9.2
10°-20°	137.7	26.1
20°-30°	168.1	31.9
30°-40°	123.6	23.4
40°-50°	41.0	7.8
50°-60°	7.2	1.4
60°-70°	1.1	0.2
70°-80°	0.3	0.1
80°-90°	0.0	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°	354.1	67.2
0°-40°	477.7	90.6
0°-60°	525.9	99.7
0°-90°	527.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	527.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	495	
5°	502	48
15°	497	138
25°	369	168
35°	201	124
45°	48	41
55°	6	7
65°	1	1
75°	0	0
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	495.2
2.5°	495.5
5°	502.4
7.5°	510.0
10°	512.0
12.5°	507.2
15°	496.6
17.5°	474.8
20°	443.6
22.5°	407.4
25°	369.1
27.5°	329.2
30°	287.4
32.5°	245.7
35°	201.3
37.5°	156.2
40°	108.1
42.5°	71.4
45°	48.2
47.5°	32.1
50°	20.9
52.5°	12.3
55°	6.5
57.5°	2.7
60°	2.0
62.5°	1.4
65°	1.0
67.5°	0.7
70°	0.7
72.5°	0.3
75°	0.3
77.5°	0.3
80°	0.0
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)