

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: P579798

Luminaire Tested: **HCC4S10D010BZ-HM40525935-41MDC**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P579798  
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: HCC4S10D010BZ-HM40525935-41MDC  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" MEDIUM DISTRIBUTION, SPECULAR TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

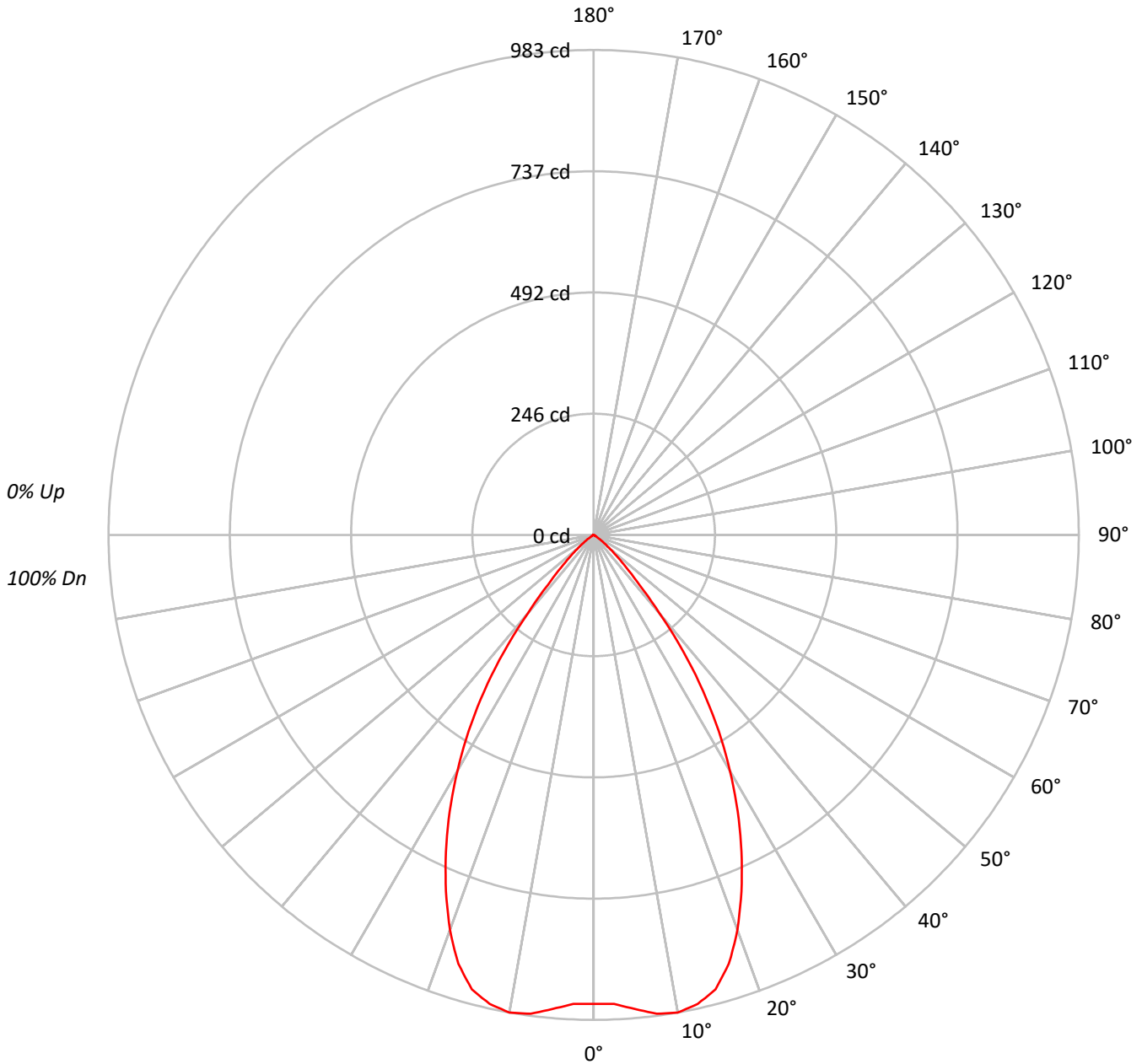
Lumens per Lamp: N/A  
Luminaire Lumens: 1012.5 lumens  
Efficiency: N/A  
Efficacy: 102.3 lumens/watt  
Spacing Criteria (0/90/45): 1 / 1 / 0.96  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 9.9  
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	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	113	111	108	106	111	108	106	104	104	103	101	101	99	98	97	96	95	93					93			
2	108	103	98	95	105	101	97	94	98	95	92	95	92	90	92	90	88	86					86			
3	102	95	90	86	100	94	89	86	91	87	84	89	86	83	87	84	82	80					80			
4	97	89	83	79	95	88	82	78	86	81	77	84	80	77	82	78	76	74					74			
5	91	83	77	72	90	82	76	72	80	75	72	78	74	71	77	73	70	69					69			
6	87	78	71	67	85	77	71	67	75	70	66	74	69	66	72	68	65	64					64			
7	82	73	66	62	81	72	66	62	71	65	62	69	65	61	68	64	61	60					60			
8	78	68	62	58	77	68	62	58	67	61	57	65	61	57	64	60	57	56					56			
9	74	64	58	54	73	64	58	54	63	57	54	62	57	54	61	57	53	52					52			
10	70	61	55	51	69	60	54	51	59	54	50	58	54	50	58	53	50	49					49			

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

	0°
0°	117277
5°	119434
10°	123107
15°	121746
20°	111796
25°	96438
30°	78591
35°	58198
40°	33379
45°	16135
50°	7695
55°	2688
60°	987
65°	555
70°	505
75°	334
80°	0
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	92.8	9.2
10°-20°	264.3	26.1
20°-30°	322.7	31.9
30°-40°	237.3	23.4
40°-50°	78.6	7.8
50°-60°	13.9	1.4
60°-70°	2.1	0.2
70°-80°	0.7	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°	679.8	67.1
0°-40°	917.1	90.6
0°-60°	1009.7	99.7
0°-90°	1012.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1012.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	951	
5°	965	93
15°	953	264
25°	709	323
35°	386	237
45°	92	79
55°	12	14
65°	2	2
75°	1	1
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	950.8
2.5°	951.4
5°	964.6
7.5°	978.9
10°	982.9
12.5°	973.7
15°	953.4
17.5°	911.4
20°	851.7
22.5°	782.1
25°	708.6
27.5°	631.8
30°	551.8
32.5°	471.8
35°	386.5
37.5°	299.9
40°	207.3
42.5°	137.1
45°	92.5
47.5°	61.7
50°	40.1
52.5°	23.7
55°	12.5
57.5°	5.2
60°	4.0
62.5°	2.6
65°	1.9
67.5°	1.4
70°	1.4
72.5°	0.7
75°	0.7
77.5°	0.7
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)