

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: P579703

Luminaire Tested: **HCC4S10D010MB-HM40525830-41WDWB**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P579703  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-10)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/9/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC4S10D010MB-HM40525830-41WDWB  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, WHITE BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

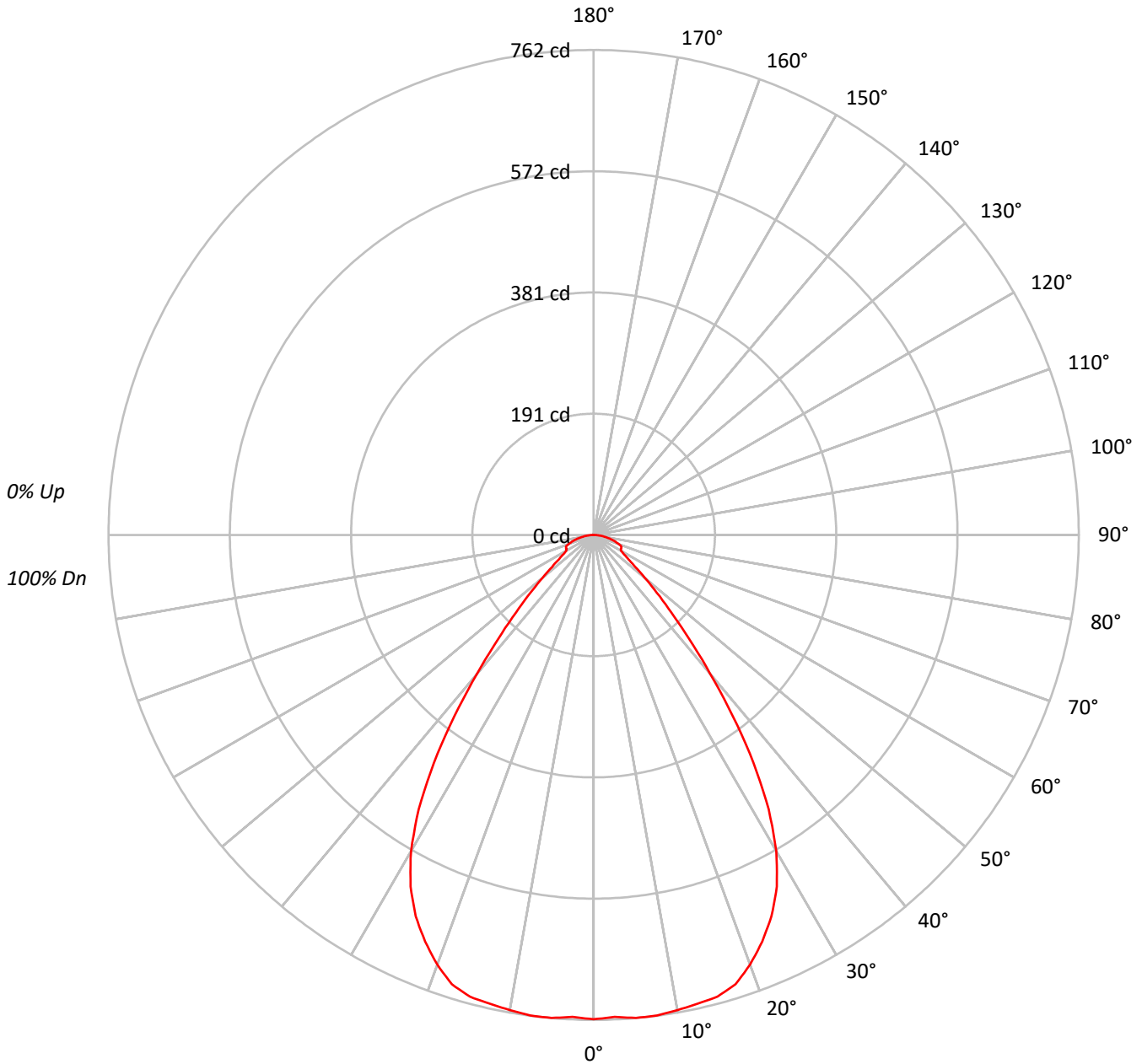
Lumens per Lamp: N/A  
Luminaire Lumens: 1143.3 lumens  
Efficiency: N/A  
Efficacy: 115.5 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.14 / 1.07  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90		
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	80		
3	98	89	83	78	95	88	82	78	85	80	76	83	78	75	80	77	74	72		
4	91	82	75	70	89	81	74	69	78	73	69	76	72	68	74	70	67	65		
5	86	75	68	63	84	74	68	63	72	67	62	71	65	61	69	64	61	59		
6	80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	59	56	54		
7	76	64	57	52	74	64	57	52	62	56	52	61	56	51	60	55	51	49		
8	71	60	53	48	70	59	53	48	58	52	48	57	51	47	56	51	47	46		
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42		
10	64	52	46	41	62	52	45	41	51	45	41	50	45	41	49	44	41	39		

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

	0°
0°	93866
5°	94311
10°	94951
15°	95913
20°	94298
25°	89974
30°	81739
35°	65938
40°	45761
45°	30038
50°	20110
55°	14322
60°	12236
65°	14038
70°	15075
75°	14535
80°	13070
85°	12029



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	72.6	6.3
10°-20°	211.0	18.5
20°-30°	301.4	26.4
30°-40°	269.3	23.6
40°-50°	138.1	12.1
50°-60°	62.8	5.5
60°-70°	46.8	4.1
70°-80°	31.9	2.8
80°-90°	9.4	0.8
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°	585.0	51.2
0°-40°	854.3	74.7
0°-60°	1055.2	92.3
0°-90°	1143.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1143.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	761	
5°	762	73
15°	751	211
25°	661	301
35°	438	269
45°	172	138
55°	67	63
65°	48	47
75°	30	32
85°	8	9
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	761.0
2.5°	758.1
5°	761.7
7.5°	761.7
10°	758.1
12.5°	754.6
15°	751.1
17.5°	740.4
20°	718.4
22.5°	691.6
25°	661.1
27.5°	622.8
30°	573.9
32.5°	511.5
35°	437.9
37.5°	359.3
40°	284.2
42.5°	221.8
45°	172.2
47.5°	134.6
50°	104.8
52.5°	82.2
55°	66.6
57.5°	56.0
60°	49.6
62.5°	48.1
65°	48.1
67.5°	46.8
70°	41.8
72.5°	36.2
75°	30.5
77.5°	24.1
80°	18.4
82.5°	13.4
85°	8.5
87.5°	3.5
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)