

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: P584099

Luminaire Tested: **HCC8S25D010MW-HM82555827-81MDC**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P584099  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-4)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 10/21/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC8S25D010MW-HM82555827-81MDC  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" MEDIUM DISTRIBUTION, SPECULAR TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

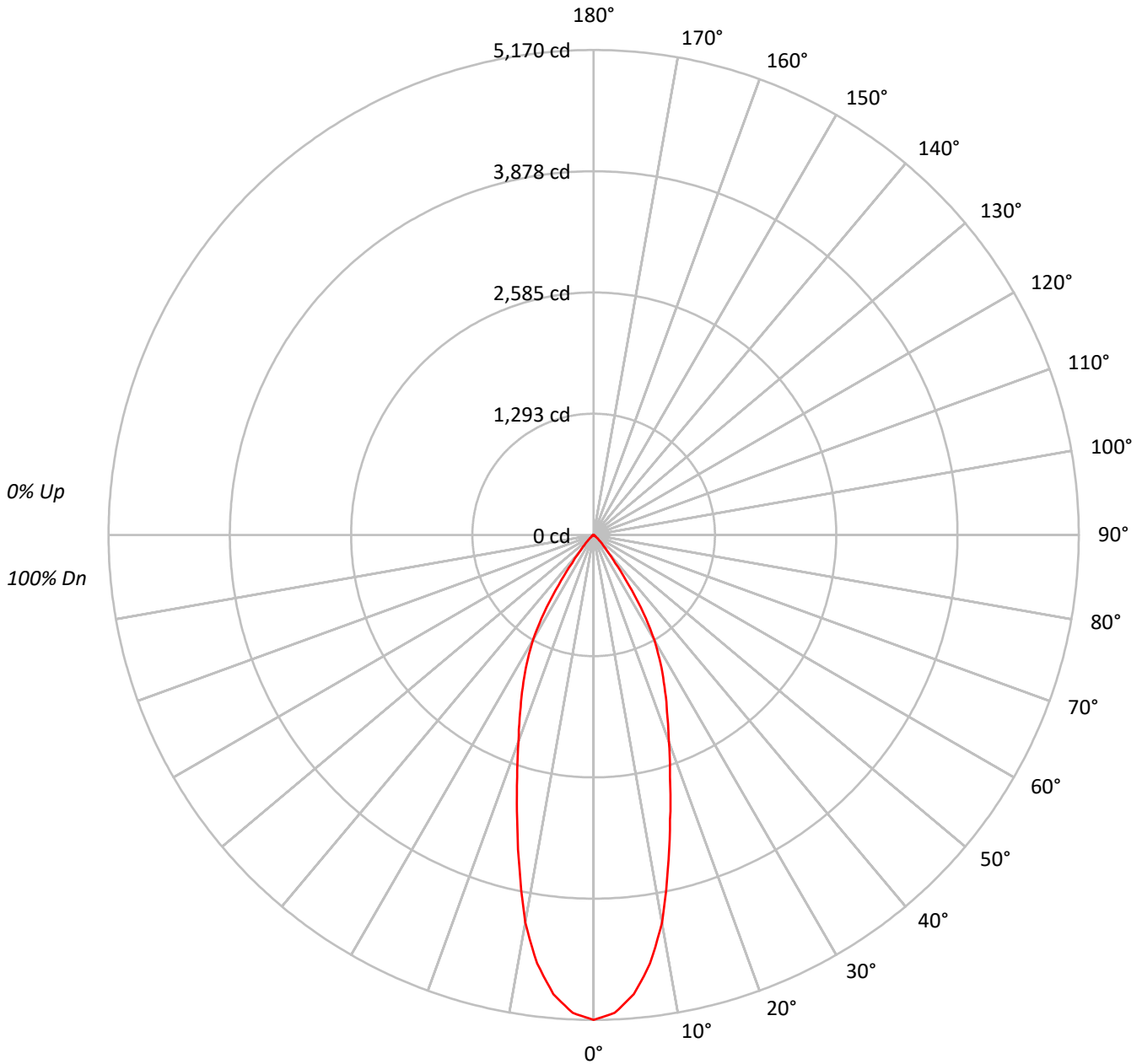
Lumens per Lamp: N/A  
Luminaire Lumens: 2668.5 lumens  
Efficiency: N/A  
Efficacy: 99.6 lumens/watt  
Spacing Criteria (0/90/45): 0.58 / 0.58 / 0.67  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

Input Watts (W): 26.8  
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	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	114	111	109	107	112	109	107	105	105	104	102	102	100	99	98	97	96	95						95													
2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	92	91	89						89													
3	104	98	94	90	102	97	93	90	94	91	88	92	89	87	90	87	85	84						84													
4	100	93	88	84	98	92	87	83	90	86	82	88	84	82	86	83	81	79						79													
5	95	88	82	78	94	87	82	78	85	81	77	83	80	77	82	79	76	75						75													
6	91	83	78	74	90	82	77	74	81	76	73	79	76	73	78	75	72	71						71													
7	87	79	73	70	86	78	73	69	77	72	69	76	72	69	75	71	68	67						67													
8	84	75	70	66	82	74	69	66	73	69	65	72	68	65	71	68	65	64						64													
9	80	71	66	62	79	71	66	62	70	65	62	69	65	62	68	65	62	61						61													
10	77	68	63	59	76	68	63	59	67	62	59	66	62	59	66	62	59	58						58													

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

	0°
0°	159439
5°	152124
10°	131338
15°	100430
20°	76844
25°	60794
30°	45926
35°	24431
40°	9307
45°	4466
50°	1900
55°	801
60°	302
65°	241
70°	144
75°	0
80°	0
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	446.1	16.7
10°-20°	878.2	32.9
20°-30°	817.9	30.7
30°-40°	422.1	15.8
40°-50°	86.0	3.2
50°-60°	14.7	0.6
60°-70°	2.8	0.1
70°-80°	0.6	0.0
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°	2142.3	80.3
0°-40°	2564.3	96.1
0°-60°	2665.0	99.9
0°-90°	2668.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2668.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	5170	
5°	4914	446
15°	3146	878
25°	1787	818
35°	649	422
45°	102	86
55°	15	15
65°	3	3
75°	0	1
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	5170.5
2.5°	5101.1
5°	4914.5
7.5°	4607.4
10°	4194.5
12.5°	3652.9
15°	3145.9
17.5°	2706.7
20°	2341.7
22.5°	2044.4
25°	1786.8
27.5°	1542.4
30°	1289.8
32.5°	989.2
35°	649.0
37.5°	376.5
40°	231.2
42.5°	151.9
45°	102.4
47.5°	64.4
50°	39.6
52.5°	23.1
55°	14.9
57.5°	6.6
60°	4.9
62.5°	3.3
65°	3.3
67.5°	1.6
70°	1.6
72.5°	1.6
75°	0.0
77.5°	0.0
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)