

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: P583695

Luminaire Tested: **HCC8S10D010BZ-HM80520827-81MDC**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P583695  
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: HCC8S10D010BZ-HM80520827-81MDC  
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**

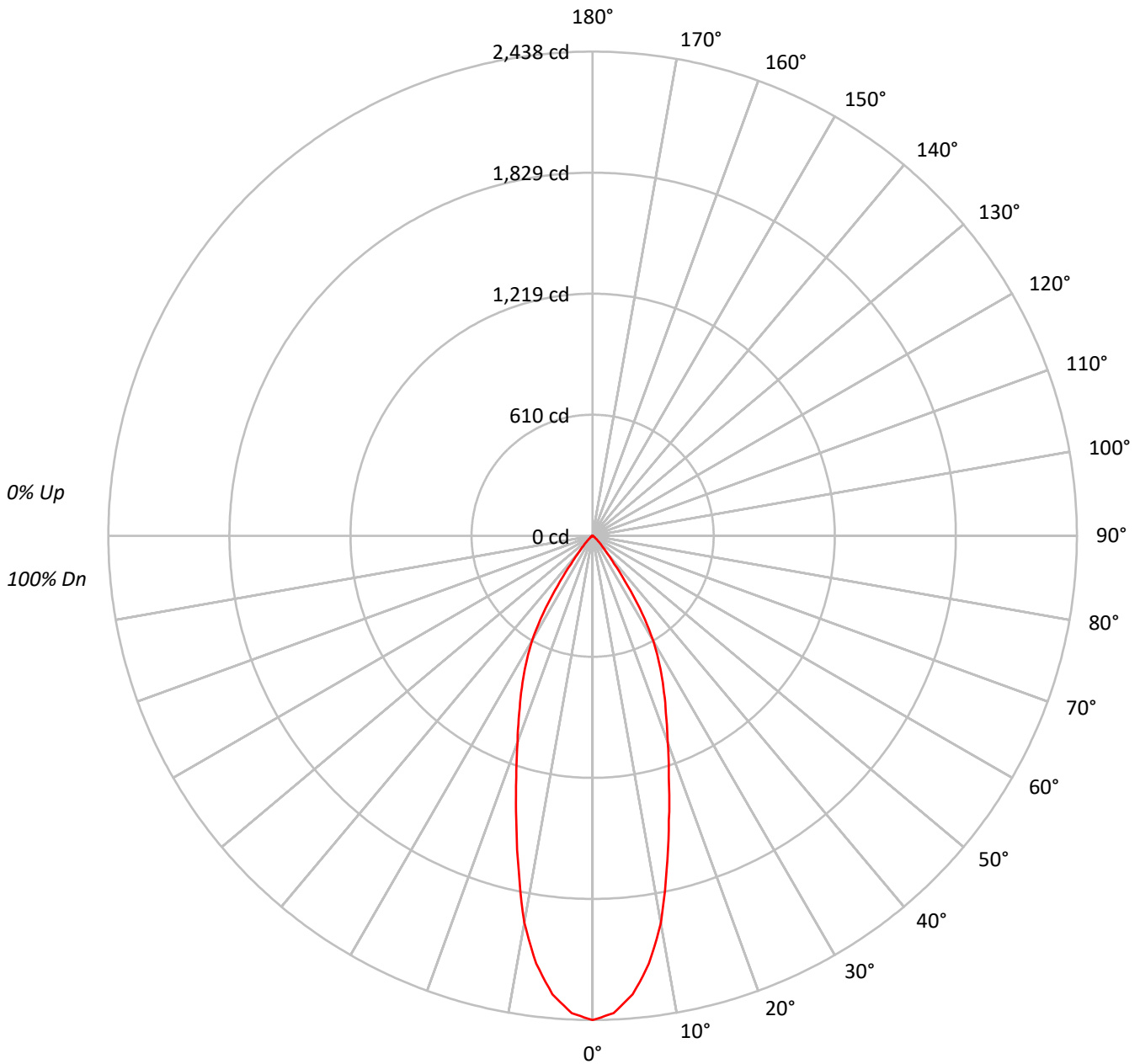
Lumens per Lamp: N/A  
Luminaire Lumens: 1258.4 lumens  
Efficiency: N/A  
Efficacy: 127.1 lumens/watt  
Spacing Criteria (0/90/45): 0.58 / 0.58 / 0.67  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

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

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

	0°
0°	75191
5°	71742
10°	61938
15°	47363
20°	36241
25°	28672
30°	21656
35°	11519
40°	4388
45°	2106
50°	902
55°	376
60°	142
65°	117
70°	63
75°	0
80°	0
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	210.4	16.7
10°-20°	414.2	32.9
20°-30°	385.8	30.7
30°-40°	199.0	15.8
40°-50°	40.5	3.2
50°-60°	6.9	0.6
60°-70°	1.3	0.1
70°-80°	0.3	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°	1010.3	80.3
0°-40°	1209.3	96.1
0°-60°	1256.8	99.9
0°-90°	1258.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1258.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2438	
5°	2318	210
15°	1484	414
25°	843	386
35°	306	199
45°	48	41
55°	7	7
65°	2	1
75°	0	0
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	2438.4
2.5°	2405.7
5°	2317.7
7.5°	2172.9
10°	1978.1
12.5°	1722.7
15°	1483.6
17.5°	1276.4
20°	1104.4
22.5°	964.1
25°	842.7
27.5°	727.5
30°	608.2
32.5°	466.5
35°	306.0
37.5°	177.5
40°	109.0
42.5°	71.6
45°	48.3
47.5°	30.4
50°	18.8
52.5°	10.9
55°	7.0
57.5°	3.1
60°	2.3
62.5°	1.6
65°	1.6
67.5°	0.7
70°	0.7
72.5°	0.7
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)