

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: P583700

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

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P583700  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-3)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 10/21/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC8S10D010BZ-HM80520827-81NDW  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" NARROW DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

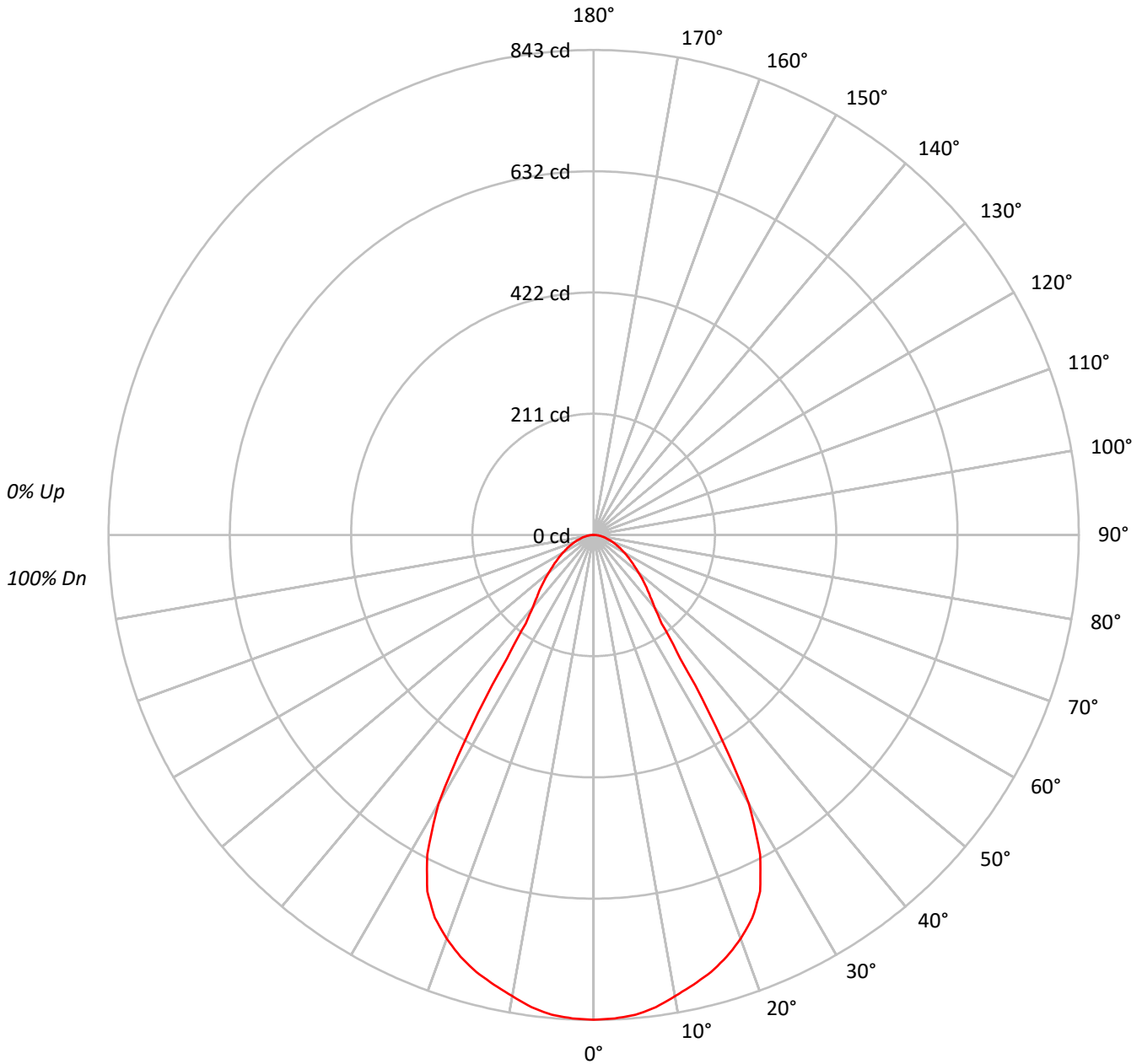
Lumens per Lamp: N/A  
Luminaire Lumens: 1042.8 lumens  
Efficiency: N/A  
Efficacy: 105.3 lumens/watt  
Spacing Criteria (0/90/45): 1.06 / 1.06 / 0.92  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

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				20			
RC	80				70				50				30				10			
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	101	102	100	98	98	96	95	95	93	92	90		
2	105	99	94	90	102	97	92	88	94	90	87	91	87	85	88	85	83	81		
3	98	90	84	79	96	89	83	79	86	81	77	84	80	76	81	78	75	73		
4	92	83	76	71	90	82	76	71	80	74	70	77	73	69	75	72	68	67		
5	87	77	70	65	85	76	69	64	74	68	64	72	67	63	70	66	63	61		
6	82	71	64	59	80	70	64	59	69	63	58	67	62	58	66	61	58	56		
7	77	66	59	54	76	66	59	54	64	58	54	63	58	54	62	57	53	52		
8	73	62	55	50	71	61	55	50	60	54	50	59	54	50	58	53	49	48		
9	69	58	51	47	68	57	51	47	56	51	46	55	50	46	55	50	46	45		
10	65	55	48	44	64	54	48	44	53	47	43	52	47	43	52	47	43	42		

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

	0°
0°	25989
5°	25921
10°	25491
15°	25118
20°	24513
25°	23269
30°	19196
35°	9882
40°	6614
45°	5674
50°	4893
55°	4274
60°	3793
65°	3415
70°	3092
75°	2776
80°	2504
85°	2477



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	79.2	7.6
10°-20°	221.4	21.2
20°-30°	306.7	29.4
30°-40°	184.2	17.7
40°-50°	100.8	9.7
50°-60°	71.6	6.9
60°-70°	46.5	4.5
70°-80°	24.9	2.4
80°-90°	7.4	0.7
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°	607.3	58.2
0°-40°	791.5	75.9
0°-60°	964.0	92.4
0°-90°	1042.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1042.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	843	
5°	837	79
15°	787	221
25°	684	307
35°	262	184
45°	130	101
55°	80	72
65°	47	47
75°	23	25
85°	7	7
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	842.8
2.5°	841.3
5°	837.4
7.5°	828.1
10°	814.1
12.5°	800.8
15°	786.8
17.5°	768.9
20°	747.0
22.5°	720.6
25°	683.9
27.5°	626.4
30°	539.1
32.5°	395.0
35°	262.5
37.5°	194.0
40°	164.3
42.5°	145.7
45°	130.1
47.5°	115.3
50°	102.0
52.5°	89.5
55°	79.5
57.5°	70.1
60°	61.5
62.5°	53.7
65°	46.8
67.5°	39.8
70°	34.3
72.5°	28.0
75°	23.3
77.5°	18.8
80°	14.1
82.5°	10.1
85°	7.0
87.5°	3.1
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)