

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: P583733

Luminaire Tested: **HCC8S10D010BZ-HM80520835-81NDH**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P583733  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-2)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 10/21/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC8S10D010BZ-HM80520835-81NDH  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" NARROW DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

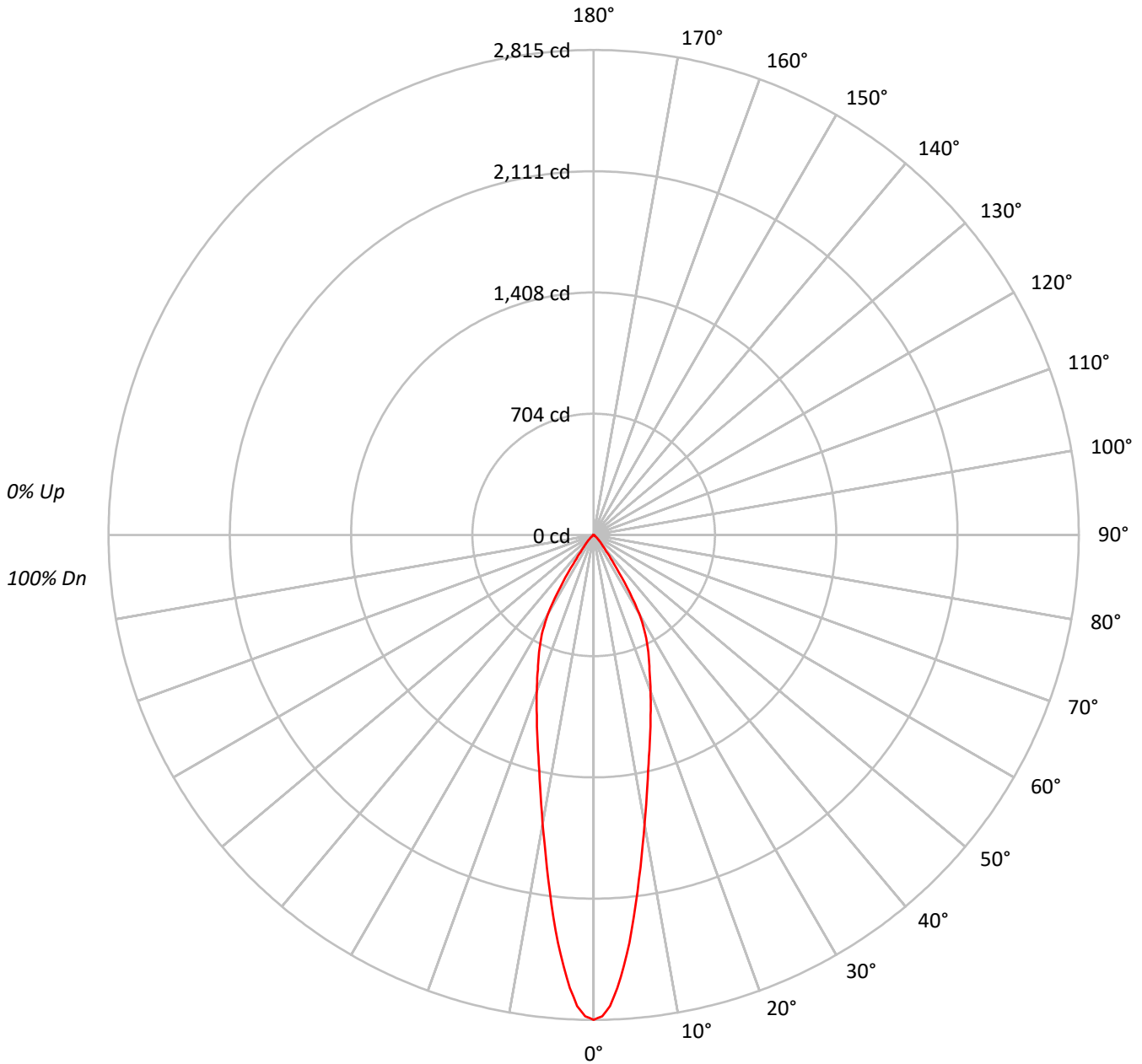
Lumens per Lamp: N/A  
Luminaire Lumens: 1091.0 lumens  
Efficiency: N/A  
Efficacy: 110.2 lumens/watt  
Spacing Criteria (0/90/45): 0.42 / 0.42 / 0.57  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

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			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	100	100	100
1	114	112	109	107	112	109	107	106	105	104	102	102	100	99	98	97	96	95	95	95	95
2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	92	91	89	89	89	89
3	104	99	94	91	102	97	93	90	95	91	88	92	90	87	90	88	86	84	84	84	84
4	100	93	88	84	98	92	87	84	90	86	83	88	85	82	86	83	81	80	80	80	80
5	96	88	83	79	94	87	82	79	86	81	78	84	80	77	82	79	77	75	75	75	75
6	92	84	78	75	90	83	78	74	81	77	74	80	76	73	79	76	73	72	72	72	72
7	88	80	74	71	87	79	74	70	78	73	70	77	73	70	76	72	69	68	68	68	68
8	84	76	71	67	83	75	70	67	74	70	66	73	69	66	72	69	66	65	65	65	65
9	81	72	67	64	80	72	67	63	71	66	63	70	66	63	69	66	63	62	62	62	62
10	78	69	64	61	77	69	64	61	68	63	60	67	63	60	67	63	60	59	59	59	59

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

	0°
0°	86810
5°	73547
10°	53362
15°	40071
20°	31618
25°	25504
30°	18900
35°	7657
40°	3228
45°	1731
50°	777
55°	392
60°	253
65°	175
70°	144
75°	95
80°	142
85°	283



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	204.0	18.7
10°-20°	352.6	32.3
20°-30°	340.9	31.2
30°-40°	149.7	13.7
40°-50°	32.4	3.0
50°-60°	7.3	0.7
60°-70°	2.5	0.2
70°-80°	1.0	0.1
80°-90°	0.8	0.1
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°	897.4	82.3
0°-40°	1047.2	96.0
0°-60°	1086.8	99.6
0°-90°	1091.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1091.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2815	
5°	2376	204
15°	1255	353
25°	750	341
35°	203	150
45°	40	32
55°	7	7
65°	2	2
75°	1	1
85°	1	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2815.2
1°	2794.2
2°	2736.6
3°	2633.0
4°	2508.9
5°	2376.0
6°	2231.0
7°	2085.1
8°	1948.2
9°	1820.9
10°	1704.2
11°	1594.0
12°	1495.2
13°	1405.1
14°	1325.8
15°	1255.2
17.5°	1097.3
20°	963.5
22.5°	846.1
25°	749.6
27.5°	651.6
30°	530.8
32.5°	360.6
35°	203.4
37.5°	120.0
40°	80.2
42.5°	56.7
45°	39.7
47.5°	26.0
50°	16.2
52.5°	9.7
55°	7.3
57.5°	5.6
60°	4.1
62.5°	3.2
65°	2.4
67.5°	1.6
70°	1.6
72.5°	0.8
75°	0.8
77.5°	0.8
80°	0.8
82.5°	0.8

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**CANDELA DISTRIBUTION (continued):**

0°  
90° | 0.0

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Report Generated By 670245859 / DESKTOP-T8S5UU9



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— 0°-180°

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85°		0.8
87.5°		0.8

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(END OF REPORT)