

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: P584052

Luminaire Tested: **HCC8W20D010BZ-HM80520930-81NDH**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P584052  
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: HCC8W20D010BZ-HM80520930-81NDH  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" NARROW DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

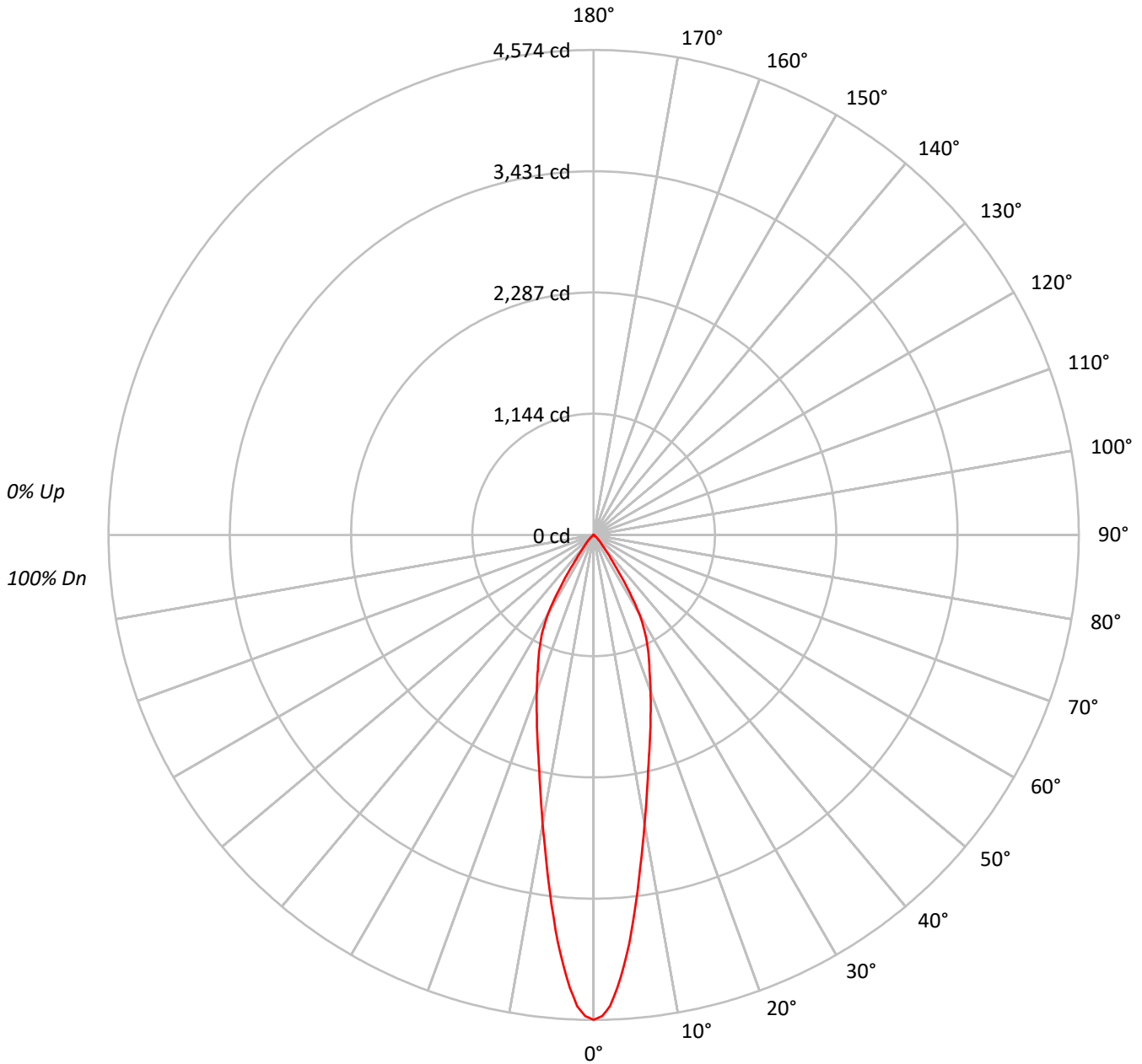
Lumens per Lamp: N/A  
Luminaire Lumens: 1772.4 lumens  
Efficiency: N/A  
Efficacy: 88.6 lumens/watt  
Spacing Criteria (0/90/45): 0.42 / 0.42 / 0.57  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

Input Watts (W): 20  
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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	114	112	109	107	112	109	107	106	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	99	94	91	102	97	93	90	95	91	88	92	90	87	90	88	86	84
4	100	93	88	84	98	92	87	84	90	86	83	88	85	82	86	83	81	80
5	96	88	83	79	94	87	82	79	86	81	78	84	80	77	82	79	77	75
6	92	84	78	75	90	83	78	74	81	77	74	80	76	73	79	76	73	72
7	88	80	74	70	87	79	74	70	78	73	70	77	73	70	76	72	69	68
8	84	76	71	67	83	75	70	67	74	70	66	73	69	66	72	69	66	65
9	81	72	67	64	80	72	67	63	71	66	63	70	66	63	69	66	63	62
10	78	69	64	61	77	69	64	61	68	63	60	67	63	60	67	63	60	59

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

	0°
0°	141033
5°	119486
10°	86690
15°	65103
20°	51366
25°	41435
30°	30704
35°	12441
40°	5249
45°	2813
50°	1266
55°	634
60°	407
65°	285
70°	234
75°	155
80°	231
85°	460



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	331.4	18.7
10°-20°	572.8	32.3
20°-30°	553.8	31.2
30°-40°	243.2	13.7
40°-50°	52.6	3.0
50°-60°	11.8	0.7
60°-70°	4.0	0.2
70°-80°	1.5	0.1
80°-90°	1.2	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°	1458.0	82.3
0°-40°	1701.2	96.0
0°-60°	1765.6	99.6
0°-90°	1772.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1772.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4574	
5°	3860	331
15°	2039	573
25°	1218	554
35°	330	243
45°	64	53
55°	12	12
65°	4	4
75°	1	2
85°	1	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	4573.6
1°	4539.4
2°	4445.9
3°	4277.4
4°	4075.9
5°	3860.1
6°	3624.4
7°	3387.4
8°	3164.9
9°	2958.2
10°	2768.6
11°	2589.6
12°	2429.0
13°	2282.8
14°	2153.8
15°	2039.3
17.5°	1782.6
20°	1565.3
22.5°	1374.4
25°	1217.8
27.5°	1058.5
30°	862.3
32.5°	585.8
35°	330.5
37.5°	194.8
40°	130.4
42.5°	92.2
45°	64.5
47.5°	42.1
50°	26.4
52.5°	15.8
55°	11.8
57.5°	9.2
60°	6.6
62.5°	5.3
65°	3.9
67.5°	2.6
70°	2.6
72.5°	1.3
75°	1.3
77.5°	1.3
80°	1.3
82.5°	1.3

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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°		1.3
87.5°		1.3

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(END OF REPORT)