

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: P584253

Luminaire Tested: **HCC8W30D010BZ-HM82555830-81MDH**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P584253  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-5)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 10/21/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC8W30D010BZ-HM82555830-81MDH  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" MEDIUM DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

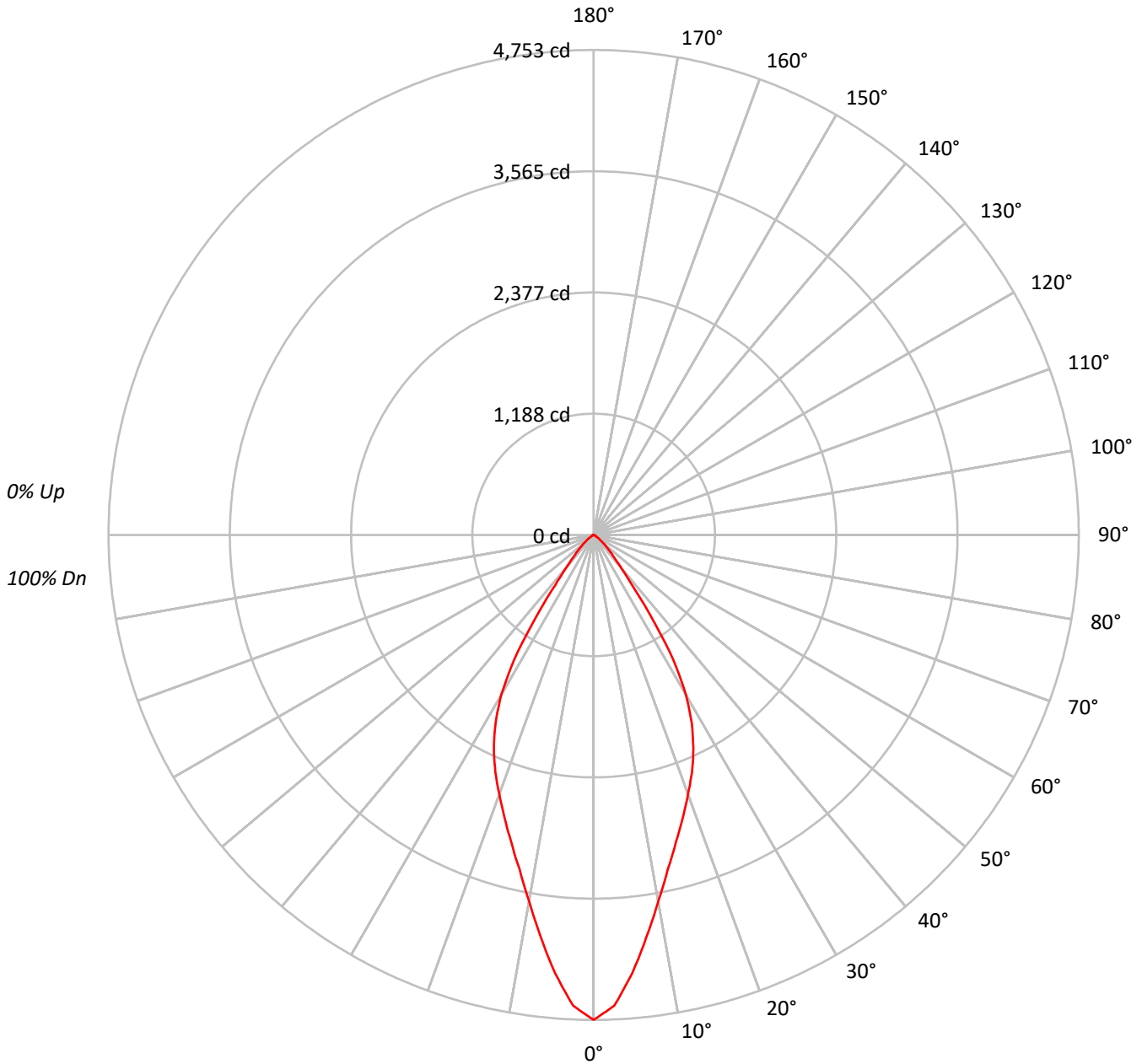
Lumens per Lamp: N/A  
Luminaire Lumens: 3204.5 lumens  
Efficiency: N/A  
Efficacy: 114.4 lumens/watt  
Spacing Criteria (0/90/45): 0.68 / 0.68 / 0.81  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

Input Watts (W): 28  
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



TEST NUMBER: P584253  
CATALOG NUMBER: HCC8W30D010BZ-HM82555830-81MDH

### Luminous Intensity Polar Plot





TEST NUMBER: P584253

CATALOG NUMBER: HCC8W30D010BZ-HM82555830-81MDH

**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			
1	114	111	108	106	111	109	106	104	105	103	101	101	99	98	97	96	95	94			
2	108	103	99	96	106	101	98	95	98	95	93	95	93	91	92	91	89	87			
3	103	96	91	87	101	95	90	87	92	88	85	90	87	84	88	85	83	81			
4	97	90	85	80	96	89	84	80	87	82	79	85	81	78	83	80	77	76			
5	93	84	79	74	91	83	78	74	82	77	73	80	76	73	78	75	72	71			
6	88	79	73	69	87	78	73	69	77	72	68	76	71	68	74	70	67	66			
7	84	75	69	64	82	74	68	64	73	68	64	71	67	64	70	66	63	62			
8	80	70	64	60	79	70	64	60	69	64	60	68	63	60	67	63	60	58			
9	76	67	61	57	75	66	61	57	65	60	57	64	60	56	63	59	56	55			
10	73	63	57	54	72	63	57	53	62	57	53	61	56	53	60	56	53	52			

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

	0°
0°	146553
5°	133548
10°	114107
15°	99511
20°	88690
25°	78677
30°	64416
35°	36989
40°	16416
45°	9555
50°	5517
55°	3150
60°	1739
65°	1109
70°	784
75°	512
80°	373
85°	743



TEST NUMBER: P584253  
 CATALOG NUMBER: HCC8W30D010BZ-HM82555830-81MDH

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	390.5	12.2
10°-20°	876.2	27.3
20°-30°	1048.8	32.7
30°-40°	634.5	19.8
40°-50°	177.8	5.5
50°-60°	55.2	1.7
60°-70°	15.8	0.5
70°-80°	4.2	0.1
80°-90°	1.4	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°	2315.5	72.3
0°-40°	2950.0	92.1
0°-60°	3183.1	99.3
0°-90°	3204.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3204.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4753	
5°	4314	391
15°	3117	876
25°	2312	1049
35°	983	634
45°	219	178
55°	59	55
65°	15	16
75°	4	4
85°	2	1
90°	0	



TEST NUMBER: P584253  
CATALOG NUMBER: HCC8W30D010BZ-HM82555830-81MDH

**CANDELA DISTRIBUTION (FULL):**

0°	
0°	4752.6
2.5°	4618.1
5°	4314.4
7.5°	3971.7
10°	3644.2
12.5°	3357.9
15°	3117.1
17.5°	2904.5
20°	2702.7
22.5°	2516.2
25°	2312.4
27.5°	2082.4
30°	1809.1
32.5°	1455.5
35°	982.6
37.5°	611.7
40°	407.8
42.5°	292.9
45°	219.1
47.5°	160.5
50°	115.0
52.5°	80.3
55°	58.6
57.5°	39.0
60°	28.2
62.5°	19.5
65°	15.2
67.5°	10.8
70°	8.7
72.5°	4.3
75°	4.3
77.5°	2.1
80°	2.1
82.5°	2.1
85°	2.1
87.5°	0.0
90°	0.0

Classified  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9

Classified  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report





Classified  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



— 0°-180°

Classified  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



Classified  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



Classified  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



(END OF REPORT)