

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: P584315

Luminaire Tested: **HCC8W30D010MB-HM82555927-81WDW**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P584315  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-9)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 10/21/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC8W30D010MB-HM82555927-81WDW  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

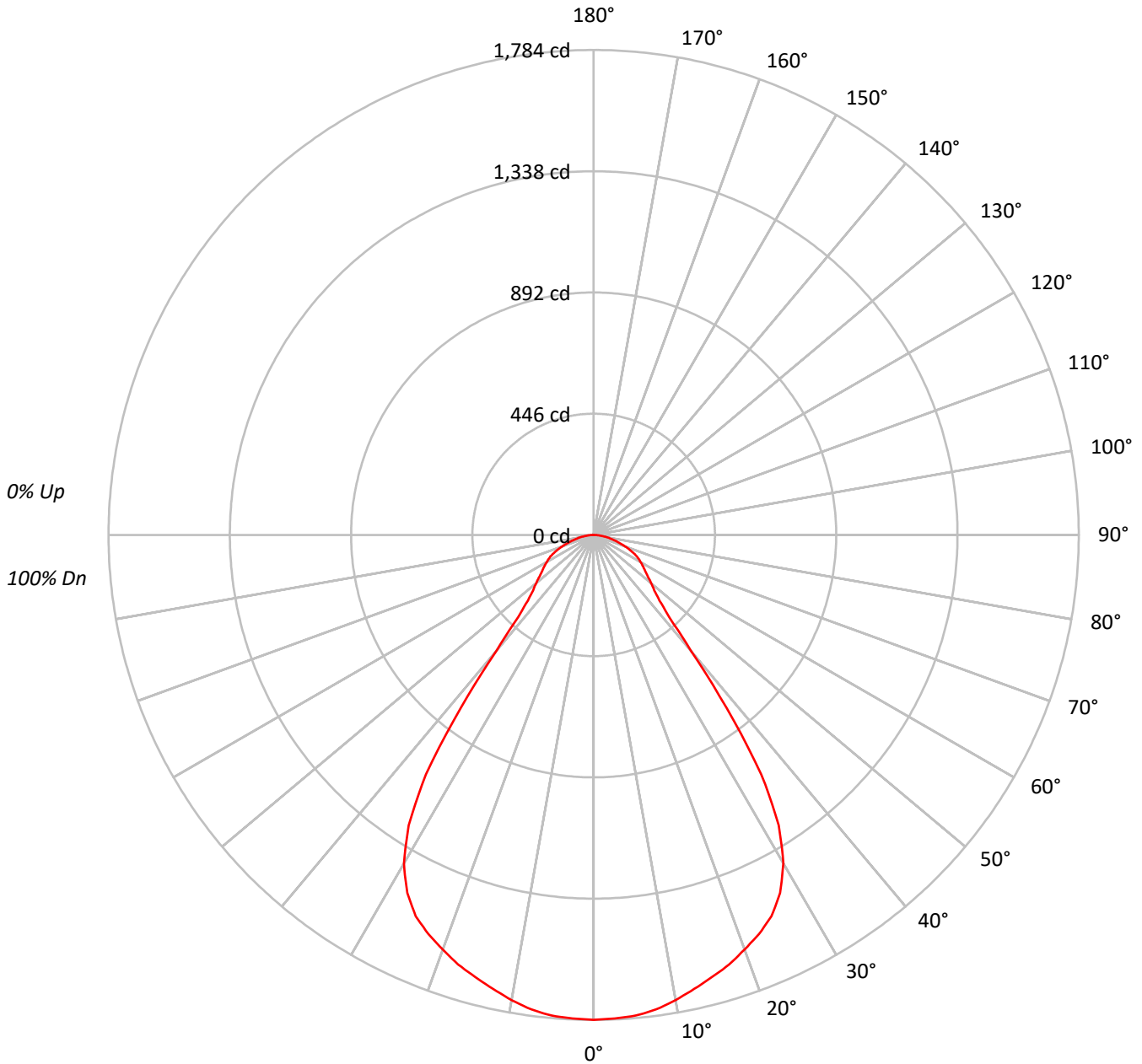
Lumens per Lamp: N/A  
Luminaire Lumens: 2751.6 lumens  
Efficiency: N/A  
Efficacy: 98.3 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.06  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

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: P584315  
CATALOG NUMBER: HCC8W30D010MB-HM82555927-81WDW

### Luminous Intensity Polar Plot



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



TEST NUMBER: P584315

CATALOG NUMBER: HCC8W30D010MB-HM82555927-81WDW

**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
1	111	108	104	101	109	105	102	100	101	99	96	97	95	94	94	92	91	89			89
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79			79
3	97	88	82	76	94	87	81	76	84	79	75	81	77	73	79	75	72	70			70
4	90	80	73	68	88	79	73	67	77	71	67	75	70	66	73	68	65	63			63
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	63	59	57			57
6	79	68	61	55	77	67	60	55	65	59	55	64	58	54	62	58	54	52			52
7	74	63	56	50	73	62	55	50	61	54	50	59	54	50	58	53	49	48			48
8	70	58	51	46	69	58	51	46	57	50	46	55	50	46	54	49	45	44			44
9	66	54	47	43	65	54	47	42	53	47	42	52	46	42	51	46	42	40			40
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	37			37

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

	0°
0°	55012
5°	54947
10°	54401
15°	53747
20°	53249
25°	52656
30°	49682
35°	40456
40°	22353
45°	14919
50°	13231
55°	12419
60°	12261
65°	12156
70°	10981
75°	9817
80°	8595
85°	7607



TEST NUMBER: P584315  
 CATALOG NUMBER: HCC8W30D010MB-HM82555927-81WDW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	168.2	6.1
10°-20°	475.4	17.3
20°-30°	706.4	25.7
30°-40°	636.2	23.1
40°-50°	282.0	10.2
50°-60°	208.9	7.6
60°-70°	162.4	5.9
70°-80°	88.0	3.2
80°-90°	24.1	0.9
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°	1350.0	49.1
0°-40°	1986.2	72.2
0°-60°	2477.1	90.0
0°-90°	2751.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2751.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1784	
5°	1775	168
15°	1684	475
25°	1548	706
35°	1075	636
45°	342	282
55°	231	209
65°	167	162
75°	82	88
85°	22	24
90°	0	



TEST NUMBER: P584315  
CATALOG NUMBER: HCC8W30D010MB-HM82555927-81WDW

**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1784.0
2.5°	1780.4
5°	1775.1
7.5°	1760.7
10°	1737.4
12.5°	1710.5
15°	1683.6
17.5°	1656.8
20°	1622.7
22.5°	1588.7
25°	1547.6
27.5°	1484.8
30°	1395.3
32.5°	1266.3
35°	1074.7
37.5°	802.5
40°	555.3
42.5°	410.2
45°	342.1
47.5°	302.7
50°	275.8
52.5°	250.8
55°	231.0
57.5°	215.0
60°	198.8
62.5°	184.5
65°	166.6
67.5°	145.1
70°	121.8
72.5°	102.1
75°	82.4
77.5°	64.4
80°	48.4
82.5°	34.0
85°	21.5
87.5°	8.9
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)