

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: P584349

Luminaire Tested: **HCC8S30D010BZ-HM82555935-81WDW**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P584349  
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: HCC8S30D010BZ-HM82555935-81WDW  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

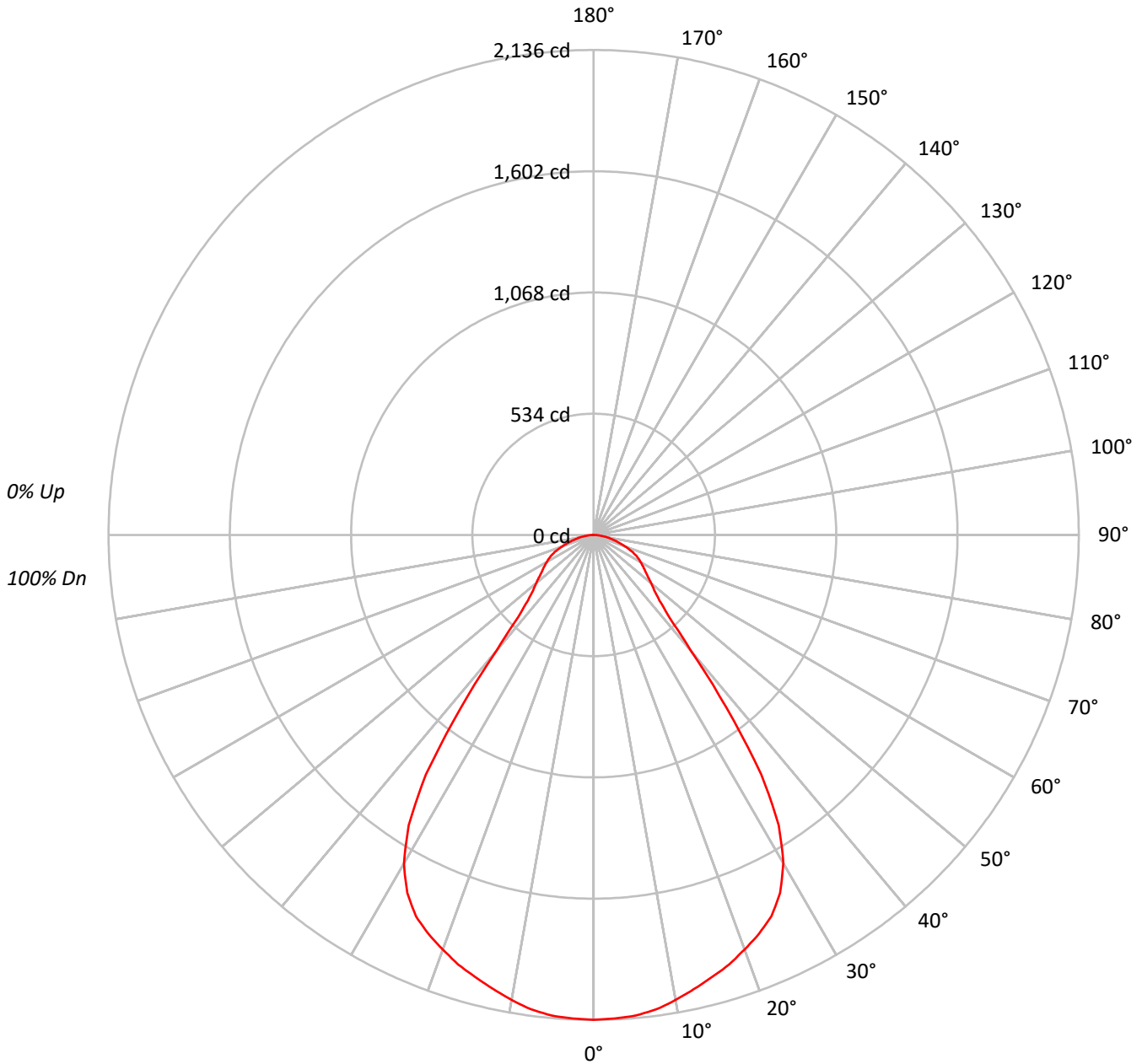
Lumens per Lamp: N/A  
Luminaire Lumens: 3294.3 lumens  
Efficiency: N/A  
Efficacy: 117.7 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.06  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

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: P584349  
CATALOG NUMBER: HCC8S30D010BZ-HM82555935-81WDW

### Luminous Intensity Polar Plot



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



TEST NUMBER: P584349

CATALOG NUMBER: HCC8S30D010BZ-HM82555935-81WDW

**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°	65860
5°	65781
10°	65129
15°	64349
20°	63754
25°	63036
30°	59477
35°	48433
40°	26761
45°	17862
50°	15841
55°	14876
60°	14678
65°	14549
70°	13145
75°	11759
80°	10282
85°	9093



TEST NUMBER: P584349  
 CATALOG NUMBER: HCC8S30D010BZ-HM82555935-81WDW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	201.4	6.1
10°-20°	569.2	17.3
20°-30°	845.7	25.7
30°-40°	761.6	23.1
40°-50°	337.6	10.2
50°-60°	250.1	7.6
60°-70°	194.4	5.9
70°-80°	105.4	3.2
80°-90°	28.9	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°	1616.3	49.1
0°-40°	2377.9	72.2
0°-60°	2965.6	90.0
0°-90°	3294.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3294.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2136	
5°	2125	201
15°	2016	569
25°	1853	846
35°	1287	762
45°	410	338
55°	277	250
65°	199	194
75°	99	105
85°	26	29
90°	0	



TEST NUMBER: P584349  
CATALOG NUMBER: HCC8S30D010BZ-HM82555935-81WDW

**CANDELA DISTRIBUTION (FULL):**

0°	
0°	2135.8
2.5°	2131.5
5°	2125.1
7.5°	2108.0
10°	2080.0
12.5°	2047.9
15°	2015.7
17.5°	1983.6
20°	1942.8
22.5°	1902.0
25°	1852.7
27.5°	1777.7
30°	1670.4
32.5°	1516.1
35°	1286.6
37.5°	960.7
40°	664.8
42.5°	491.1
45°	409.6
47.5°	362.4
50°	330.2
52.5°	300.2
55°	276.7
57.5°	257.3
60°	238.0
62.5°	220.9
65°	199.4
67.5°	173.7
70°	145.8
72.5°	122.2
75°	98.7
77.5°	77.2
80°	57.9
82.5°	40.8
85°	25.7
87.5°	10.7
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)