

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: P584563

Luminaire Tested: **HCC8S40D010BZ-HM82555840-81NDW**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P584563  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-3)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 10/21/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC8S40D010BZ-HM82555840-81NDW  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" NARROW DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

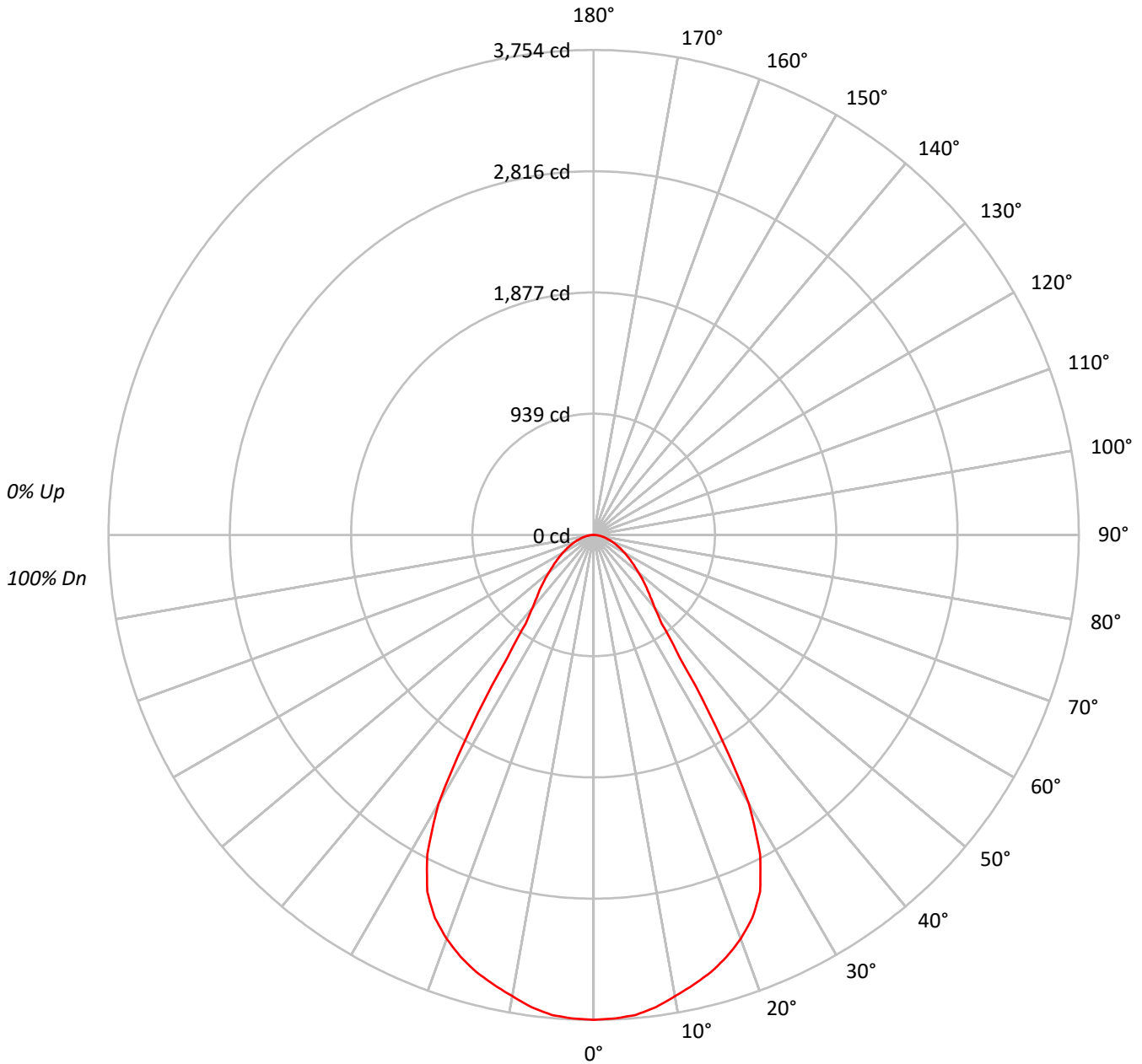
Lumens per Lamp: N/A  
Luminaire Lumens: 4644.1 lumens  
Efficiency: N/A  
Efficacy: 113.3 lumens/watt  
Spacing Criteria (0/90/45): 1.06 / 1.06 / 0.92  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

Input Watts (W): 41  
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: P584563  
CATALOG NUMBER: HCC8S40D010BZ-HM82555840-81NDW

### Luminous Intensity Polar Plot





TEST NUMBER: P584563  
 CATALOG NUMBER: HCC8S40D010BZ-HM82555840-81NDW

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20									20									20									20									
RC	80									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	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90																			
2	105	99	94	90	102	97	92	88	94	90	87	91	87	85	88	85	83	81																			
3	98	90	84	79	96	89	83	79	86	81	77	84	80	76	81	78	75	73																			
4	92	83	76	71	90	82	76	71	80	74	70	77	73	69	75	72	68	67																			
5	87	77	70	65	85	76	69	64	74	68	64	72	67	63	70	66	63	61																			
6	82	71	64	59	80	70	64	59	69	63	58	67	62	58	66	61	58	56																			
7	77	66	59	54	76	66	59	54	64	58	54	63	58	54	62	57	53	52																			
8	73	62	55	50	71	61	55	50	60	54	50	59	54	50	58	53	49	48																			
9	69	58	51	47	68	57	51	47	56	51	46	55	50	46	55	50	46	45																			
10	65	55	48	44	64	54	48	44	53	47	43	52	47	43	52	47	43	42																			

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

	0°
0°	115756
5°	115446
10°	113522
15°	111865
20°	109180
25°	103644
30°	85485
35°	44014
40°	29470
45°	25267
50°	21804
55°	19026
60°	16904
65°	15184
70°	13767
75°	12403
80°	11099
85°	11039



TEST NUMBER: P584563  
 CATALOG NUMBER: HCC8S40D010BZ-HM82555840-81NDW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	352.6	7.6
10°-20°	985.9	21.2
20°-30°	1366.0	29.4
30°-40°	820.4	17.7
40°-50°	449.2	9.7
50°-60°	319.1	6.9
60°-70°	207.2	4.5
70°-80°	110.7	2.4
80°-90°	33.0	0.7
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°	2704.5	58.2
0°-40°	3524.9	75.9
0°-60°	4293.2	92.4
0°-90°	4644.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4644.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3754	
5°	3730	353
15°	3504	986
25°	3046	1366
35°	1169	820
45°	579	449
55°	354	319
65°	208	207
75°	104	111
85°	31	33
90°	0	



TEST NUMBER: P584563  
CATALOG NUMBER: HCC8S40D010BZ-HM82555840-81NDW

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3753.9
2.5°	3747.0
5°	3729.6
7.5°	3687.9
10°	3625.5
12.5°	3566.5
15°	3504.1
17.5°	3424.2
20°	3327.1
22.5°	3209.2
25°	3046.2
27.5°	2789.4
30°	2400.8
32.5°	1758.9
35°	1169.2
37.5°	863.8
40°	732.1
42.5°	648.8
45°	579.4
47.5°	513.5
50°	454.5
52.5°	399.0
55°	353.9
57.5°	312.3
60°	274.1
62.5°	239.4
65°	208.1
67.5°	177.0
70°	152.7
72.5°	125.0
75°	104.1
77.5°	83.3
80°	62.5
82.5°	45.1
85°	31.2
87.5°	13.9
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)