

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: P584618

Luminaire Tested: **HCC8S40D010SL-HM82555935-81WDBB**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P584618  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-11)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 10/21/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC8S40D010SL-HM82555935-81WDBB  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, BLACK BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

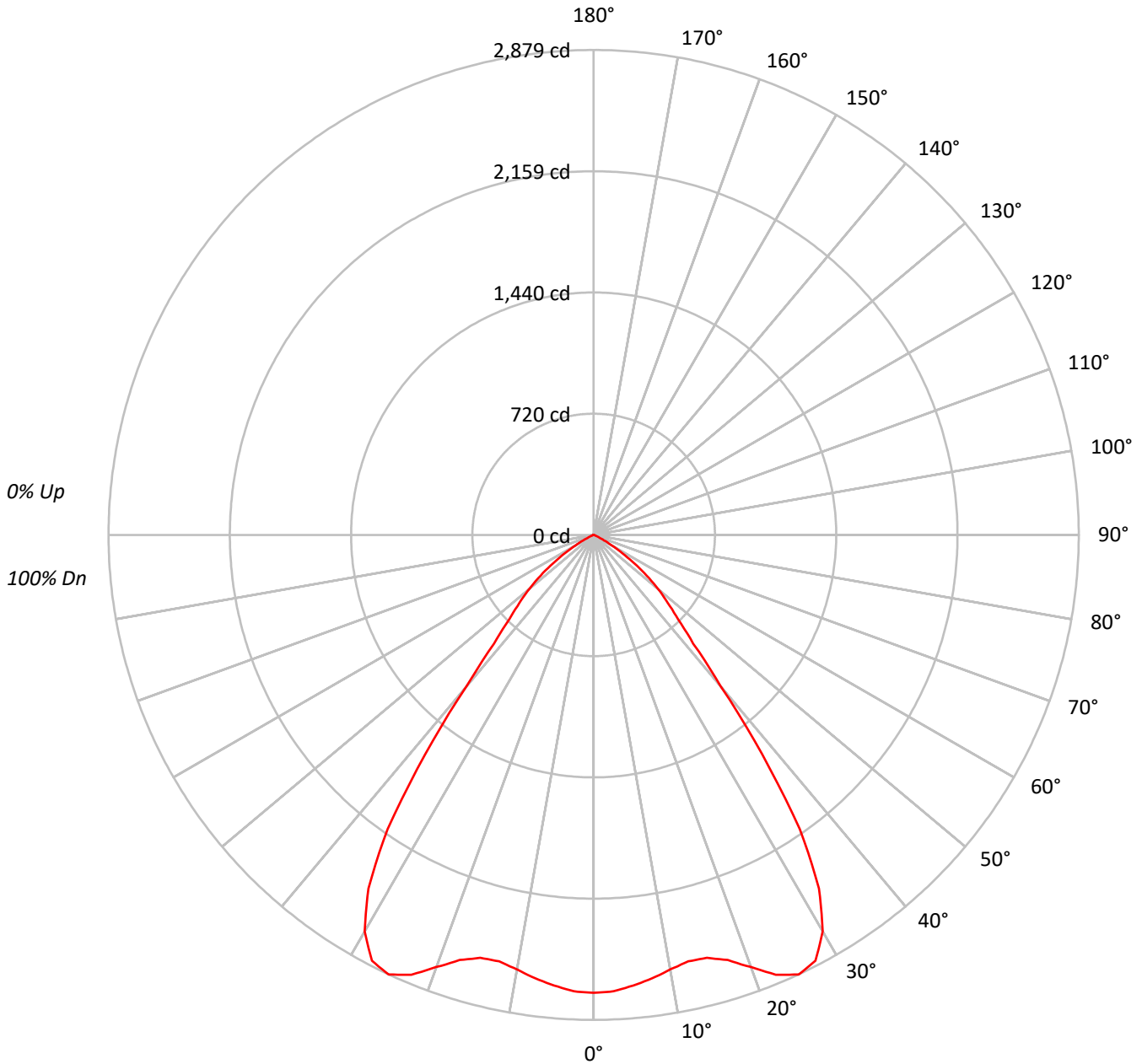
Lumens per Lamp: N/A  
Luminaire Lumens: 4473.4 lumens  
Efficiency: N/A  
Efficacy: 109.1 lumens/watt  
Spacing Criteria (0/90/45): 1.32 / 1.32 / 1.13  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

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: P584618  
CATALOG NUMBER: HCC8S40D010SL-HM82555935-81WDBB

### Luminous Intensity Polar Plot





TEST NUMBER: P584618  
 CATALOG NUMBER: HCC8S40D010SL-HM82555935-81WDBB

**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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	92		
2	106	100	95	92	104	98	94	91	95	92	89	92	89	87	89	87	85	83		
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	75		
4	93	84	78	73	91	83	77	72	81	76	71	79	74	71	77	73	70	68		
5	87	77	71	66	85	76	70	65	74	69	65	73	68	64	71	67	63	62		
6	82	71	64	59	80	70	64	59	69	63	59	67	62	58	66	61	58	56		
7	77	66	59	54	75	65	59	54	64	58	54	63	57	53	61	57	53	51		
8	72	61	54	49	71	61	54	49	59	53	49	58	53	49	57	52	49	47		
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43		
10	64	53	46	42	63	53	46	42	52	46	42	51	45	42	50	45	41	40		

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

	0°
0°	83819
5°	83124
10°	82022
15°	82961
20°	89589
25°	97969
30°	96786
35°	80284
40°	47254
45°	30871
50°	23929
55°	15897
60°	7734
65°	2393
70°	802
75°	703
80°	533
85°	1061



TEST NUMBER: P584618  
 CATALOG NUMBER: HCC8S40D010SL-HM82555935-81WDBB

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	254.3	5.7
10°-20°	746.6	16.7
20°-30°	1305.3	29.2
30°-40°	1269.7	28.4
40°-50°	577.4	12.9
50°-60°	267.7	6.0
60°-70°	44.9	1.0
70°-80°	5.5	0.1
80°-90°	2.0	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°	2306.2	51.6
0°-40°	3575.9	79.9
0°-60°	4421.1	98.8
0°-90°	4473.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4473.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2718	
5°	2685	254
15°	2599	747
25°	2879	1305
35°	2133	1270
45°	708	577
55°	296	268
65°	33	45
75°	6	5
85°	3	2
90°	0	



TEST NUMBER: P584618  
CATALOG NUMBER: HCC8S40D010SL-HM82555935-81WDBB

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2718.2
2.5°	2712.1
5°	2685.4
7.5°	2655.5
10°	2619.5
12.5°	2592.7
15°	2598.7
17.5°	2646.4
20°	2730.1
22.5°	2825.7
25°	2879.4
27.5°	2849.6
30°	2718.2
32.5°	2488.2
35°	2132.7
37.5°	1642.8
40°	1173.9
42.5°	875.1
45°	707.9
47.5°	597.4
50°	498.8
52.5°	397.2
55°	295.7
57.5°	203.1
60°	125.4
62.5°	68.7
65°	32.8
67.5°	15.0
70°	8.9
72.5°	5.9
75°	5.9
77.5°	3.0
80°	3.0
82.5°	3.0
85°	3.0
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)