

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: P584635

Luminaire Tested: **HCC8S40D010MW-HM82555940-81WDBB**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P584635  
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: HCC8S40D010MW-HM82555940-81WDBB  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, BLACK BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

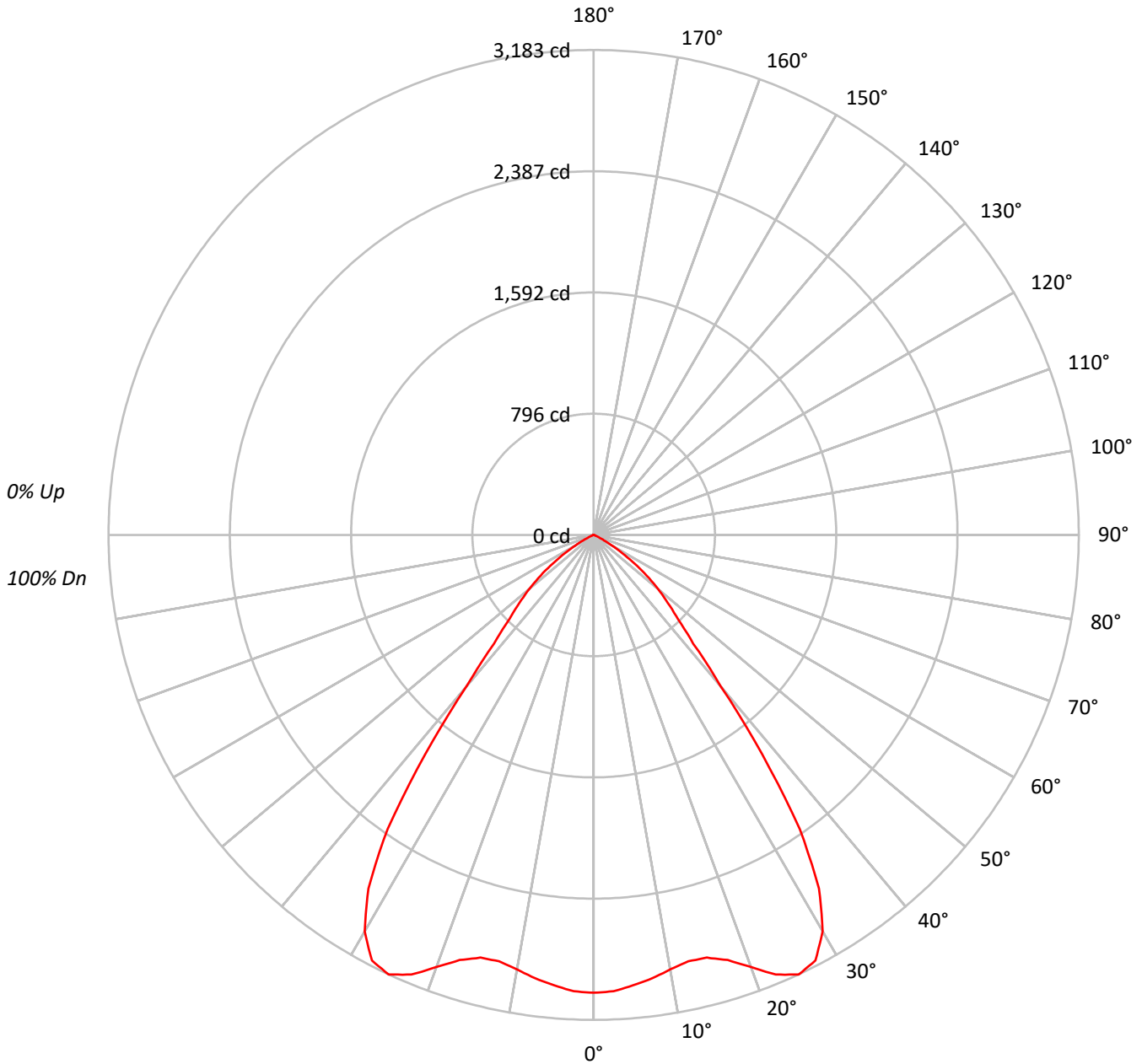
Lumens per Lamp: N/A  
Luminaire Lumens: 4944.8 lumens  
Efficiency: N/A  
Efficacy: 120.6 lumens/watt  
Spacing Criteria (0/90/45): 1.32 / 1.32 / 1.13  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

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: P584635  
CATALOG NUMBER: HCC8S40D010MW-HM82555940-81WDBB

### Luminous Intensity Polar Plot





TEST NUMBER: P584635

CATALOG NUMBER: HCC8S40D010MW-HM82555940-81WDBB

**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	0
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°	92648
5°	91878
10°	90667
15°	91699
20°	99027
25°	108292
30°	106980
35°	88742
40°	52234
45°	34124
50°	26447
55°	17575
60°	8548
65°	2649
70°	893
75°	774
80°	586
85°	1168



TEST NUMBER: P584635  
 CATALOG NUMBER: HCC8S40D010MW-HM82555940-81WDBB

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	281.1	5.7
10°-20°	825.2	16.7
20°-30°	1442.8	29.2
30°-40°	1403.5	28.4
40°-50°	638.3	12.9
50°-60°	296.0	6.0
60°-70°	49.6	1.0
70°-80°	6.0	0.1
80°-90°	2.2	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°	2549.2	51.6
0°-40°	3952.7	79.9
0°-60°	4886.9	98.8
0°-90°	4944.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4944.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3004	
5°	2968	281
15°	2872	825
25°	3183	1443
35°	2357	1404
45°	782	638
55°	327	296
65°	36	50
75°	6	6
85°	3	2
90°	0	



TEST NUMBER: P584635  
CATALOG NUMBER: HCC8S40D010MW-HM82555940-81WDBB

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3004.5
2.5°	2998.0
5°	2968.2
7.5°	2935.1
10°	2895.6
12.5°	2865.9
15°	2872.4
17.5°	2925.3
20°	3017.7
22.5°	3123.4
25°	3182.8
27.5°	3149.8
30°	3004.5
32.5°	2750.3
35°	2357.4
37.5°	1815.9
40°	1297.6
42.5°	967.4
45°	782.5
47.5°	660.3
50°	551.3
52.5°	439.1
55°	326.9
57.5°	224.6
60°	138.6
62.5°	75.9
65°	36.3
67.5°	16.5
70°	9.9
72.5°	6.5
75°	6.5
77.5°	3.3
80°	3.3
82.5°	3.3
85°	3.3
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)