

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: P580544

Luminaire Tested: **HCC4S40D010MW-HM43040827-41WDWB**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P580544  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-10)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/9/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC4S40D010MW-HM43040827-41WDWB  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, WHITE BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

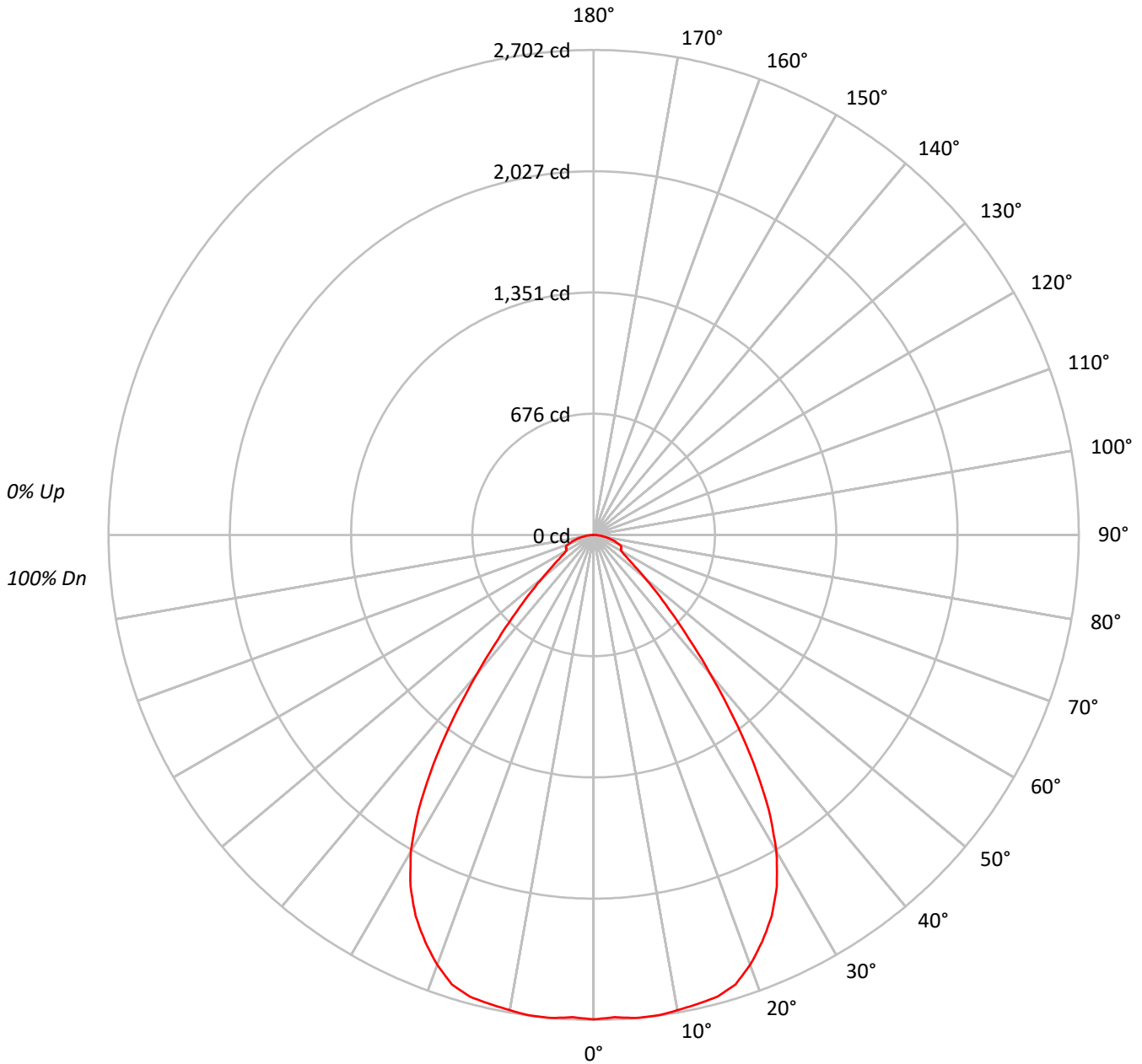
Lumens per Lamp: N/A  
Luminaire Lumens: 4055.2 lumens  
Efficiency: N/A  
Efficacy: 98.9 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.14 / 1.07  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

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: P580544  
CATALOG NUMBER: HCC4S40D010MW-HM43040827-41WDWB

### Luminous Intensity Polar Plot





TEST NUMBER: P580544

CATALOG NUMBER: HCC4S40D010MW-HM43040827-41WDWB

**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	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90		
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	80		
3	98	89	83	78	95	88	82	78	85	80	76	83	78	75	80	77	74	72		
4	91	82	75	70	89	81	74	69	78	73	69	76	72	68	74	70	67	65		
5	86	75	68	63	84	74	68	63	72	67	62	71	65	61	69	64	61	59		
6	80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	59	56	54		
7	76	64	57	52	74	64	57	52	62	56	52	61	56	51	60	55	51	49		
8	71	60	53	48	70	59	53	48	58	52	48	57	51	47	56	51	47	46		
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42		
10	64	52	46	41	62	52	45	41	51	45	41	50	45	41	49	44	41	39		

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

	0°
0°	332910
5°	334503
10°	336806
15°	340159
20°	334494
25°	319106
30°	289925
35°	233846
40°	162272
45°	106529
50°	71365
55°	50794
60°	43393
65°	49850
70°	53483
75°	51517
80°	46455
85°	42740



TEST NUMBER: P580544  
 CATALOG NUMBER: HCC4S40D010MW-HM43040827-41WDWB

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	257.5	6.3
10°-20°	748.3	18.5
20°-30°	1069.2	26.4
30°-40°	955.1	23.6
40°-50°	489.9	12.1
50°-60°	222.7	5.5
60°-70°	166.0	4.1
70°-80°	113.0	2.8
80°-90°	33.5	0.8
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°	2075.0	51.2
0°-40°	3030.1	74.7
0°-60°	3742.6	92.3
0°-90°	4055.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4055.2	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2699	
5°	2702	257
15°	2664	748
25°	2345	1069
35°	1553	955
45°	611	490
55°	236	223
65°	171	166
75°	108	113
85°	30	34
90°	0	



TEST NUMBER: P580544  
CATALOG NUMBER: HCC4S40D010MW-HM43040827-41WDWB

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2699.0
2.5°	2689.1
5°	2701.6
7.5°	2701.6
10°	2689.1
12.5°	2676.4
15°	2663.8
17.5°	2626.2
20°	2548.3
22.5°	2452.7
25°	2344.7
27.5°	2209.0
30°	2035.6
32.5°	1814.5
35°	1553.0
37.5°	1274.1
40°	1007.8
42.5°	786.6
45°	610.7
47.5°	477.4
50°	371.9
52.5°	291.6
55°	236.2
57.5°	198.5
60°	175.9
62.5°	170.8
65°	170.8
67.5°	165.9
70°	148.3
72.5°	128.1
75°	108.1
77.5°	85.4
80°	65.4
82.5°	47.8
85°	30.2
87.5°	12.6
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)