

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: P580661

Luminaire Tested: **HCC4S40D010MW-HM43040935-41NDW**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P580661  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-3)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/9/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC4S40D010MW-HM43040935-41NDW  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" NARROW DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

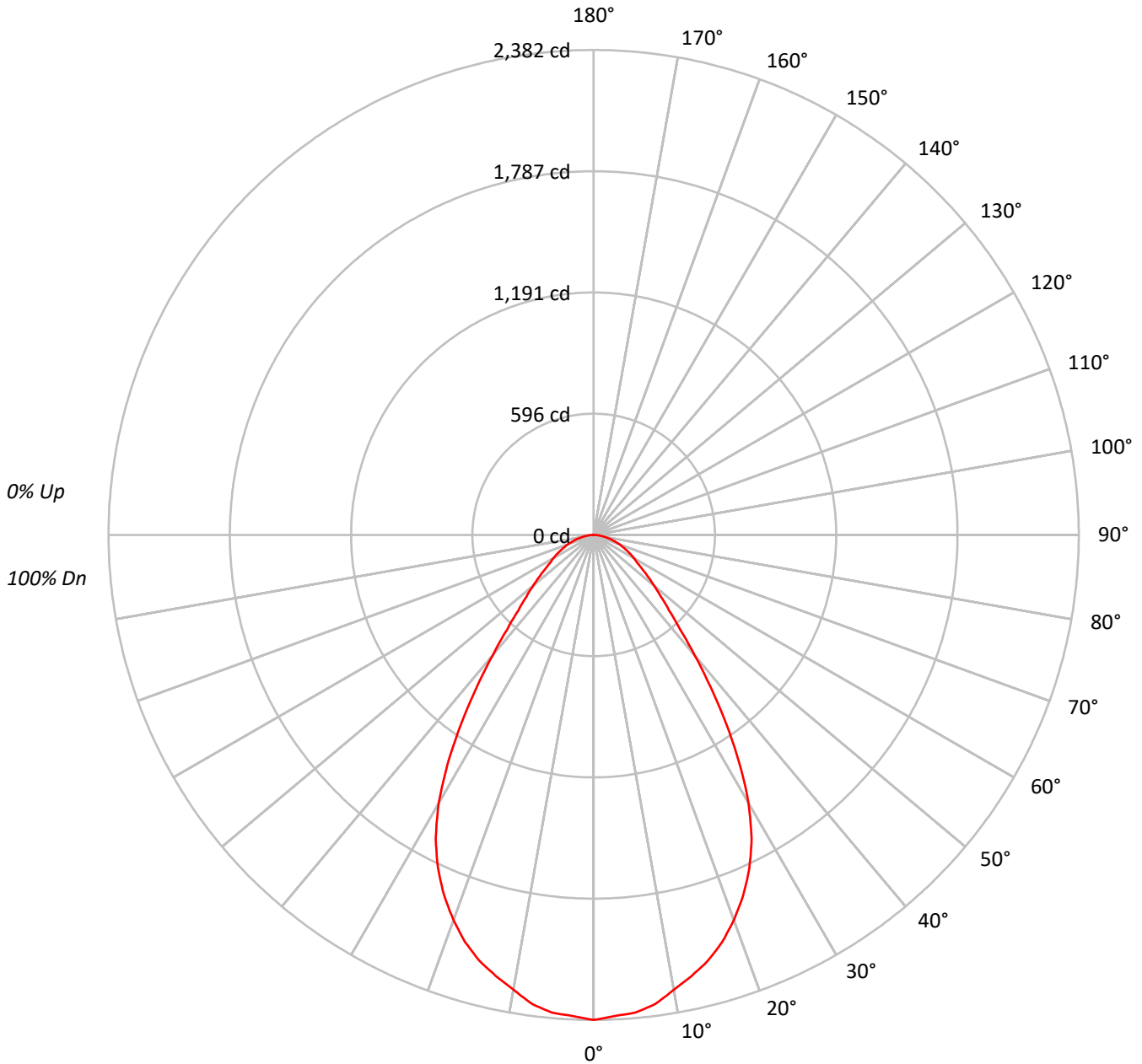
Lumens per Lamp: N/A  
Luminaire Lumens: 3344.3 lumens  
Efficiency: N/A  
Efficacy: 81.6 lumens/watt  
Spacing Criteria (0/90/45): 1.03 / 1.03 / 1.01  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

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: P580661  
CATALOG NUMBER: HCC4S40D010MW-HM43040935-41NDW

### Luminous Intensity Polar Plot





TEST NUMBER: P580661

CATALOG NUMBER: HCC4S40D010MW-HM43040935-41NDW

**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	111	108	104	101	109	105	102	100	101	99	97	98	96	94	94	92	91	89		
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79		
3	97	88	82	77	95	87	81	76	84	79	75	82	77	74	79	76	73	71		
4	90	81	74	68	88	80	73	68	77	72	67	75	70	66	73	69	65	64		
5	85	74	67	61	83	73	66	61	71	65	60	69	64	60	68	63	59	58		
6	79	68	61	56	78	67	60	55	66	60	55	64	59	55	63	58	54	52		
7	75	63	56	51	73	62	56	51	61	55	50	60	54	50	59	53	50	48		
8	70	59	52	47	69	58	51	46	57	51	46	56	50	46	55	50	46	44		
9	66	55	48	43	65	54	47	43	53	47	43	52	47	43	51	46	42	41		
10	63	51	44	40	62	51	44	40	50	44	40	49	43	39	48	43	39	38		

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

	0°
0°	293809
5°	291613
10°	284038
15°	276553
20°	264164
25°	246118
30°	216703
35°	170920
40°	124063
45°	91161
50°	74166
55°	62191
60°	56369
65°	51805
70°	48217
75°	44035
80°	39707
85°	34390



TEST NUMBER: P580661  
 CATALOG NUMBER: HCC4S40D010MW-HM43040935-41NDW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	222.1	6.6
10°-20°	607.4	18.2
20°-30°	823.4	24.6
30°-40°	706.6	21.1
40°-50°	417.2	12.5
50°-60°	264.4	7.9
60°-70°	177.6	5.3
70°-80°	98.1	2.9
80°-90°	27.5	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°	1652.9	49.4
0°-40°	2359.5	70.6
0°-60°	3041.1	90.9
0°-90°	3344.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3344.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2382	
5°	2355	222
15°	2166	607
25°	1808	823
35°	1135	707
45°	523	417
55°	289	264
65°	178	178
75°	92	98
85°	24	27
90°	0	



TEST NUMBER: P580661  
CATALOG NUMBER: HCC4S40D010MW-HM43040935-41NDW

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2382.0
2.5°	2365.0
5°	2355.2
7.5°	2323.7
10°	2267.8
12.5°	2219.1
15°	2165.7
17.5°	2097.6
20°	2012.5
22.5°	1917.8
25°	1808.4
27.5°	1679.6
30°	1521.5
32.5°	1334.4
35°	1135.1
37.5°	943.1
40°	770.5
42.5°	627.1
45°	522.6
47.5°	447.3
50°	386.5
52.5°	335.4
55°	289.2
57.5°	252.8
60°	228.5
62.5°	204.1
65°	177.5
67.5°	155.6
70°	133.7
72.5°	111.8
75°	92.4
77.5°	72.9
80°	55.9
82.5°	38.9
85°	24.3
87.5°	9.8
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)