

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: P580643

Luminaire Tested: **HCC4S40D010MB-HM43040930-41NDW**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P580643  
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: HCC4S40D010MB-HM43040930-41NDW  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" NARROW DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

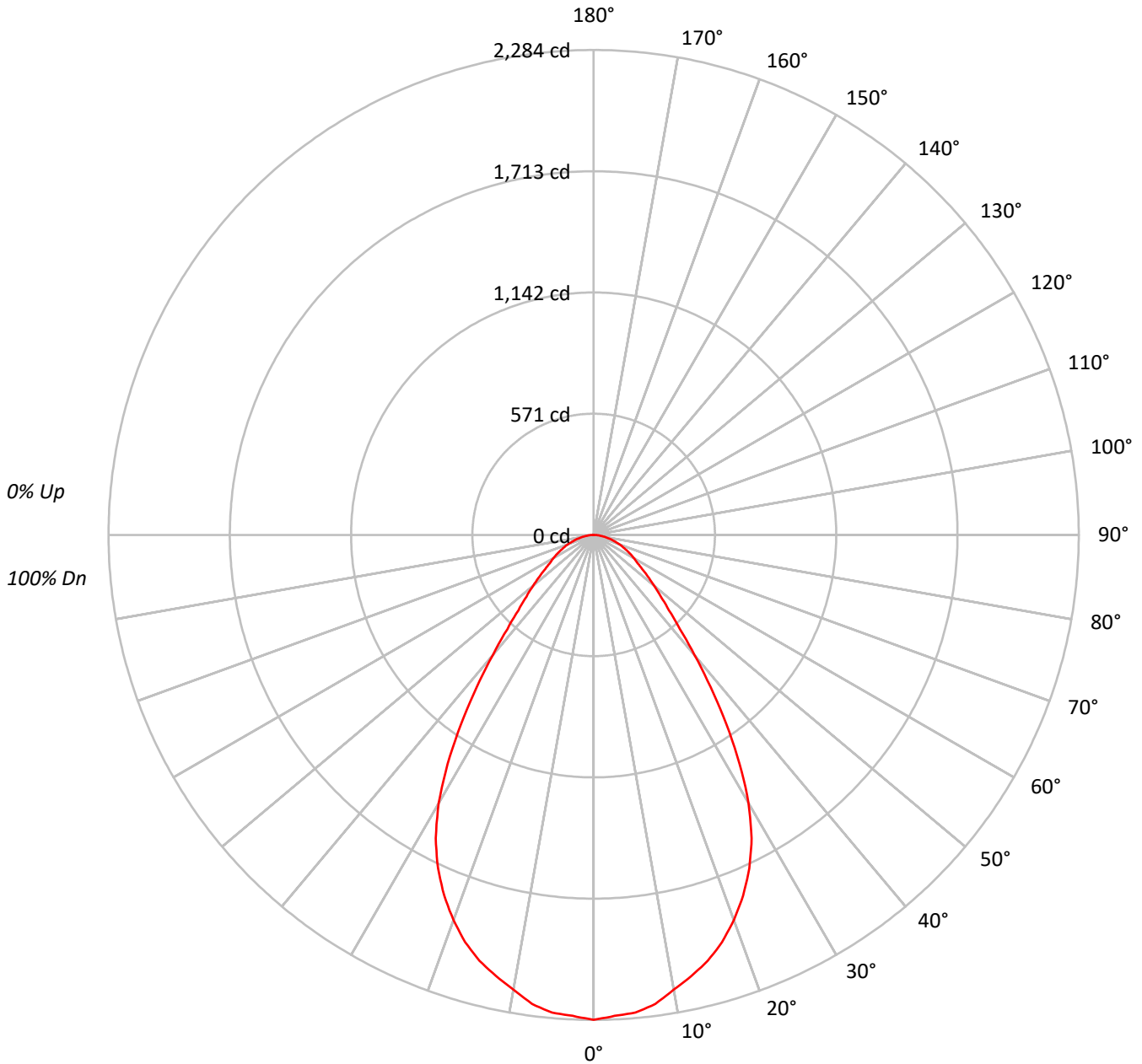
Lumens per Lamp: N/A  
Luminaire Lumens: 3206.3 lumens  
Efficiency: N/A  
Efficacy: 78.2 lumens/watt  
Spacing Criteria (0/90/45): 1.03 / 1.03 / 1.01  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

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: P580643  
CATALOG NUMBER: HCC4S40D010MB-HM43040930-41NDW

### Luminous Intensity Polar Plot





TEST NUMBER: P580643

CATALOG NUMBER: HCC4S40D010MB-HM43040930-41NDW

**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	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			100
1	111	108	104	101	109	105	102	100	101	99	97	98	96	94	94	92	91	89			89
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79			79
3	97	88	82	77	95	87	81	76	84	79	75	82	77	74	79	76	73	71			71
4	90	81	74	68	88	80	73	68	77	72	67	75	70	66	73	69	65	64			64
5	85	74	67	61	83	73	66	61	71	65	60	69	64	60	68	63	59	58			58
6	79	68	61	56	78	67	60	55	66	60	55	64	59	55	63	58	54	52			52
7	75	63	56	51	73	62	56	51	61	55	50	60	54	50	59	53	50	48			48
8	70	59	52	47	69	58	51	46	57	51	46	56	50	46	55	50	46	44			44
9	66	55	48	43	65	54	47	43	53	47	43	52	47	43	51	46	42	41			41
10	63	51	44	40	62	51	44	40	50	44	40	49	43	39	48	43	39	38			38

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

	0°
0°	281684
5°	279591
10°	272315
15°	265137
20°	253283
25°	235951
30°	207773
35°	163873
40°	118943
45°	87393
50°	71096
55°	59632
60°	54025
65°	49675
70°	46198
75°	42224
80°	38073
85°	32975



TEST NUMBER: P580643  
 CATALOG NUMBER: HCC4S40D010MB-HM43040930-41NDW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	212.9	6.6
10°-20°	582.4	18.2
20°-30°	789.5	24.6
30°-40°	677.4	21.1
40°-50°	400.0	12.5
50°-60°	253.5	7.9
60°-70°	170.3	5.3
70°-80°	94.0	2.9
80°-90°	26.3	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°	1584.8	49.4
0°-40°	2262.2	70.6
0°-60°	2915.7	90.9
0°-90°	3206.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3206.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2284	
5°	2258	213
15°	2076	582
25°	1734	789
35°	1088	677
45°	501	400
55°	277	253
65°	170	170
75°	89	94
85°	23	26
90°	0	



TEST NUMBER: P580643  
CATALOG NUMBER: HCC4S40D010MB-HM43040930-41NDW

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2283.7
2.5°	2267.4
5°	2258.1
7.5°	2227.8
10°	2174.2
12.5°	2127.7
15°	2076.3
17.5°	2011.1
20°	1929.6
22.5°	1838.7
25°	1733.7
27.5°	1610.3
30°	1458.8
32.5°	1279.4
35°	1088.3
37.5°	904.2
40°	738.7
42.5°	601.2
45°	501.0
47.5°	428.8
50°	370.5
52.5°	321.6
55°	277.3
57.5°	242.4
60°	219.0
62.5°	195.7
65°	170.2
67.5°	149.1
70°	128.1
72.5°	107.2
75°	88.6
77.5°	70.0
80°	53.6
82.5°	37.3
85°	23.3
87.5°	9.3
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)