

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: P580588

Luminaire Tested: **HCC4W40D010MW-HM43040835-41MDW**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P580588  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-6)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/9/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC4W40D010MW-HM43040835-41MDW  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" MEDIUM DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

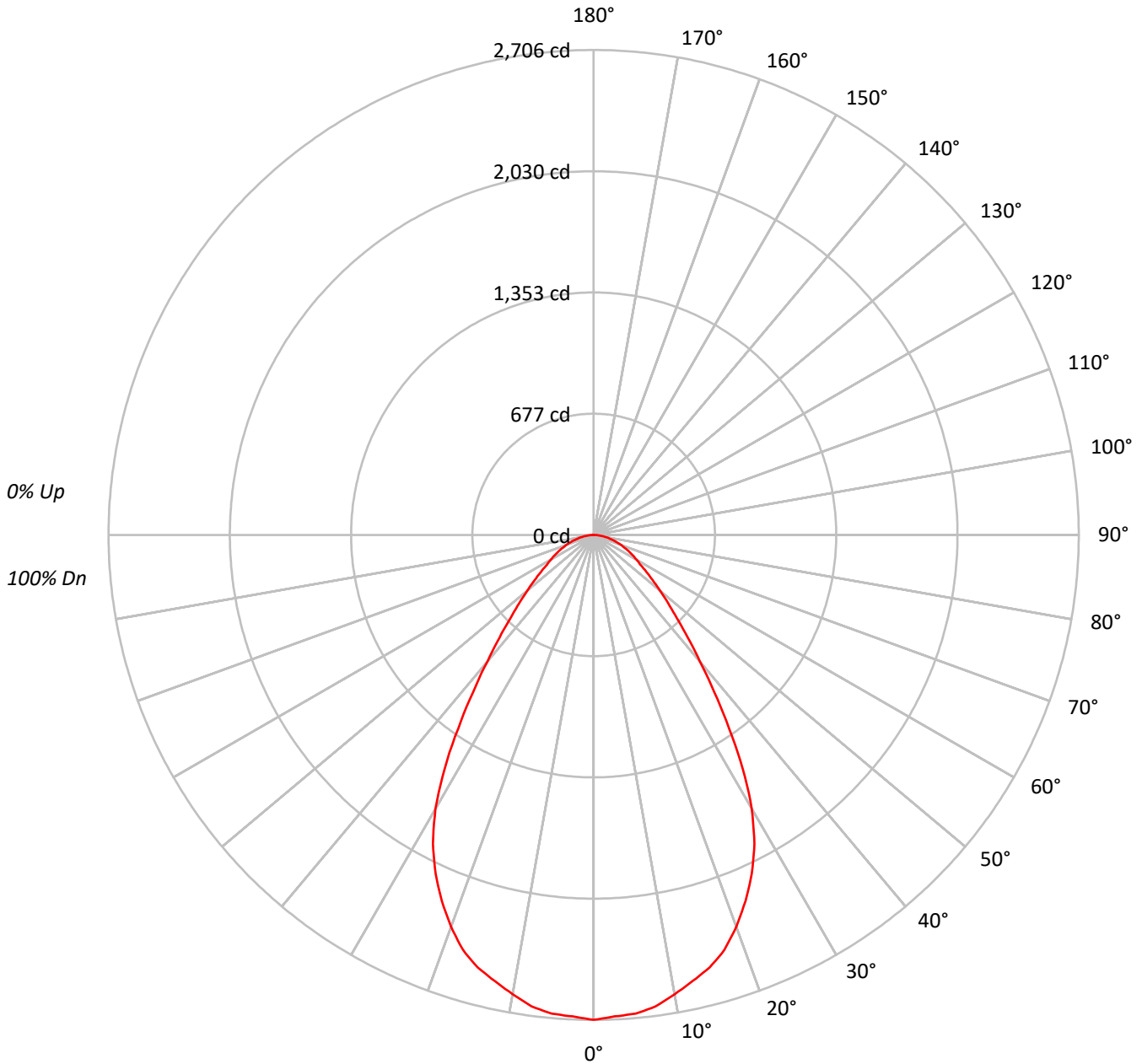
Lumens per Lamp: N/A  
Luminaire Lumens: 3936.3 lumens  
Efficiency: N/A  
Efficacy: 96.0 lumens/watt  
Spacing Criteria (0/90/45): 1.04 / 1.04 / 1.01  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

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: P580588  
CATALOG NUMBER: HCC4W40D010MW-HM43040835-41MDW

### Luminous Intensity Polar Plot





TEST NUMBER: P580588  
 CATALOG NUMBER: HCC4W40D010MW-HM43040835-41MDW

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20									20									20									20									
RC	80									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	111	108	104	101	109	105	102	100	101	99	97	97	95	94	94	92	91	89																			
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79																			
3	97	88	82	76	94	87	81	76	84	79	75	81	77	73	79	75	72	70																			
4	90	80	73	68	88	79	73	67	77	71	67	75	70	66	73	68	65	63																			
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	63	59	57																			
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	54	52																			
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47																			
8	70	58	51	46	68	58	51	46	56	50	46	55	50	45	54	49	45	44																			
9	66	54	47	42	65	54	47	42	53	46	42	52	46	42	51	46	42	40																			
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37																			

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

	0°
0°	333724
5°	331965
10°	325896
15°	319025
20°	305380
25°	283966
30°	251341
35°	198355
40°	148441
45°	114186
50°	92626
55°	76836
60°	67939
65°	62896
70°	58027
75°	53328
80°	48444
85°	38494



TEST NUMBER: P580588  
 CATALOG NUMBER: HCC4W40D010MW-HM43040835-41MDW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	253.5	6.4
10°-20°	700.6	17.8
20°-30°	951.3	24.2
30°-40°	824.1	20.9
40°-50°	517.4	13.1
50°-60°	325.5	8.3
60°-70°	213.8	5.4
70°-80°	118.0	3.0
80°-90°	32.3	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°	1905.4	48.4
0°-40°	2729.5	69.3
0°-60°	3572.3	90.8
0°-90°	3936.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3936.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2706	
5°	2681	253
15°	2498	701
25°	2086	951
35°	1317	824
45°	655	517
55°	357	325
65°	216	214
75°	112	118
85°	27	32
90°	0	



TEST NUMBER: P580588  
CATALOG NUMBER: HCC4W40D010MW-HM43040835-41MDW

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2705.6
2.5°	2689.3
5°	2681.1
7.5°	2653.7
10°	2602.0
12.5°	2550.2
15°	2498.3
17.5°	2427.4
20°	2326.5
22.5°	2212.0
25°	2086.5
27.5°	1941.9
30°	1764.7
32.5°	1549.2
35°	1317.3
37.5°	1104.6
40°	921.9
42.5°	777.3
45°	654.6
47.5°	561.8
50°	482.7
52.5°	414.5
55°	357.3
57.5°	308.2
60°	275.4
62.5°	245.5
65°	215.5
67.5°	185.4
70°	160.9
72.5°	133.6
75°	111.9
77.5°	87.3
80°	68.2
82.5°	46.4
85°	27.2
87.5°	10.9
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)