

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: P580619

Luminaire Tested: **HCC4S40D010MW-HM43040927-41WDH**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P580619  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-8)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/9/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC4S40D010MW-HM43040927-41WDH  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

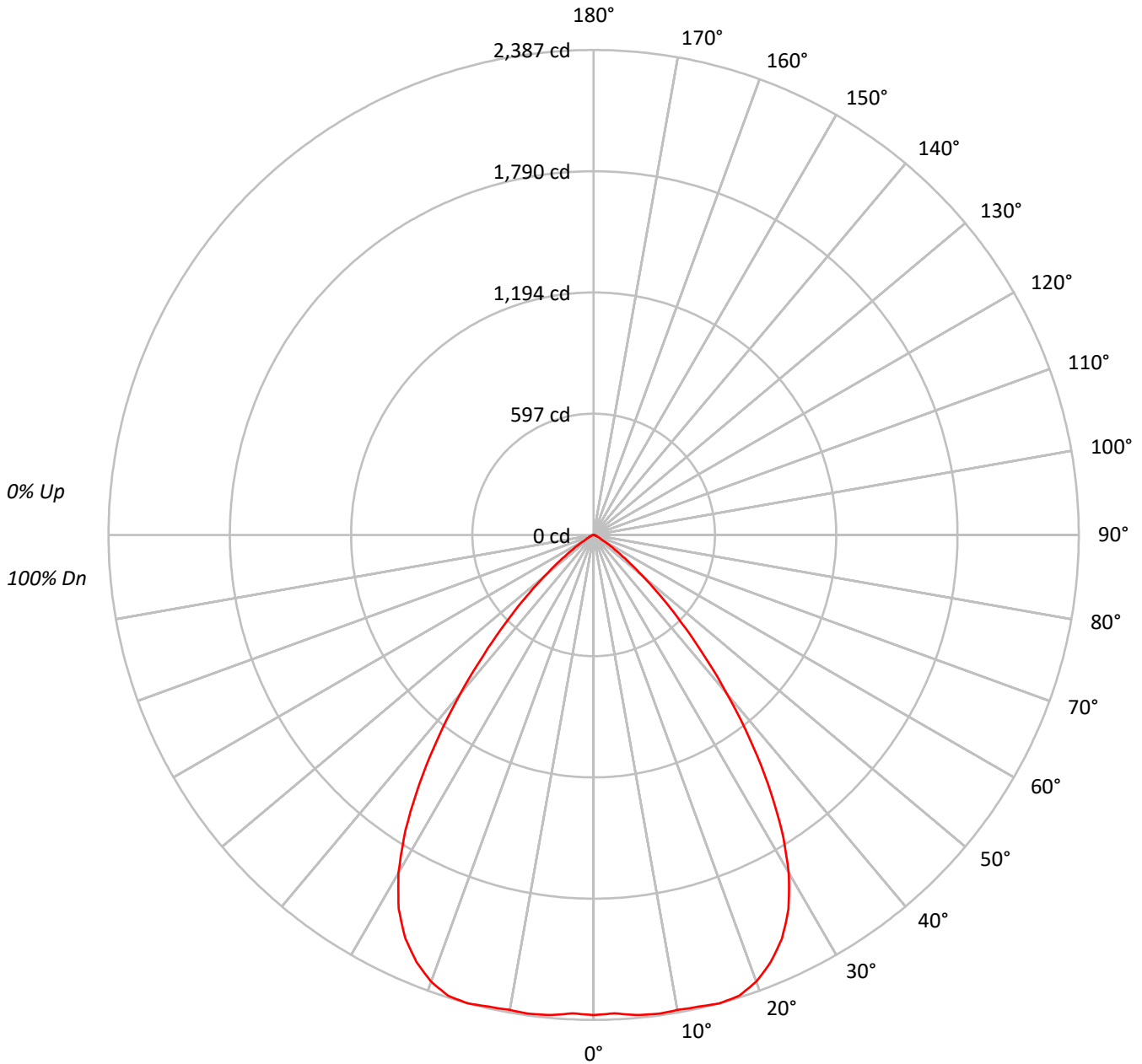
Lumens per Lamp: N/A  
Luminaire Lumens: 3467.2 lumens  
Efficiency: N/A  
Efficacy: 84.6 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.11  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

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: P580619  
CATALOG NUMBER: HCC4S40D010MW-HM43040927-41WDH

### Luminous Intensity Polar Plot





TEST NUMBER: P580619

CATALOG NUMBER: HCC4S40D010MW-HM43040927-41WDH

**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	100	100
1	113	110	107	104	110	108	105	103	103	101	100	100	98	97	96	95	94	92	92	92	92
2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	88	86	84	84	84	84
3	100	93	87	82	98	91	86	82	88	84	80	86	82	79	84	81	78	76	76	76	76
4	94	85	79	74	92	84	78	74	82	77	73	80	75	72	78	74	71	69	69	69	69
5	88	79	72	67	86	78	72	67	76	70	66	74	69	66	72	68	65	63	63	63	63
6	83	73	66	61	81	72	66	61	70	65	61	69	64	60	68	63	60	58	58	58	58
7	78	68	61	56	77	67	60	56	65	60	55	64	59	55	63	58	55	53	53	53	53
8	74	63	56	51	72	62	56	51	61	55	51	60	55	51	59	54	51	49	49	49	49
9	69	59	52	47	68	58	52	47	57	51	47	56	51	47	55	50	47	45	45	45	45
10	66	55	48	44	65	54	48	44	53	48	44	53	47	44	52	47	43	42	42	42	42

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

	0°
0°	291515
5°	293706
10°	297377
15°	304863
20°	307087
25°	298297
30°	273503
35°	225038
40°	164043
45°	106476
50°	60024
55°	28494
60°	11249
65°	6975
70°	4688
75°	3098
80°	1492
85°	2972



TEST NUMBER: P580619  
 CATALOG NUMBER: HCC4S40D010MW-HM43040927-41WDH

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	226.5	6.5
10°-20°	673.0	19.4
20°-30°	998.3	28.8
30°-40°	922.0	26.6
40°-50°	481.4	13.9
50°-60°	131.9	3.8
60°-70°	25.4	0.7
70°-80°	7.1	0.2
80°-90°	1.4	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°	1897.8	54.7
0°-40°	2819.8	81.3
0°-60°	3433.2	99.0
0°-90°	3467.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3467.2	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2363	
5°	2372	227
15°	2387	673
25°	2192	998
35°	1494	922
45°	610	481
55°	132	132
65°	24	25
75°	6	7
85°	2	1
90°	0	



TEST NUMBER: P580619  
CATALOG NUMBER: HCC4S40D010MW-HM43040927-41WDH

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2363.4
2.5°	2356.9
5°	2372.1
7.5°	2378.6
10°	2374.3
12.5°	2378.6
15°	2387.4
17.5°	2378.6
20°	2339.5
22.5°	2276.5
25°	2191.8
27.5°	2076.7
30°	1920.3
32.5°	1722.6
35°	1494.5
37.5°	1255.6
40°	1018.8
42.5°	801.6
45°	610.4
47.5°	447.5
50°	312.8
52.5°	208.5
55°	132.5
57.5°	78.2
60°	45.6
62.5°	32.6
65°	23.9
67.5°	17.4
70°	13.0
72.5°	8.7
75°	6.5
77.5°	4.4
80°	2.1
82.5°	2.1
85°	2.1
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)