

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: P580597

Luminaire Tested: **HCC4S40D010SL-HM43040840-41WDBB**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P580597  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-11)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/9/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC4S40D010SL-HM43040840-41WDBB  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, BLACK BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

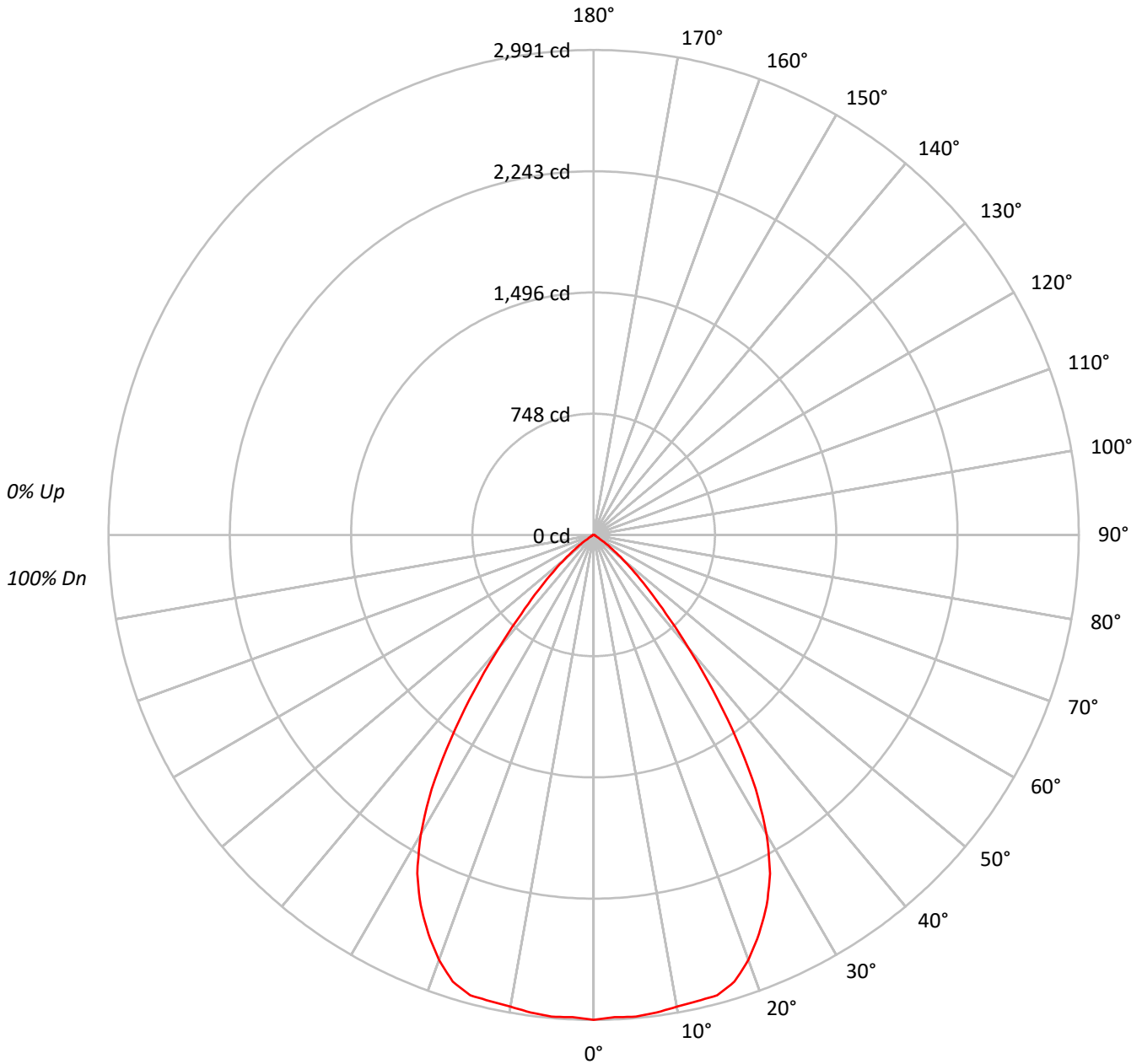
Lumens per Lamp: N/A  
Luminaire Lumens: 3699.3 lumens  
Efficiency: N/A  
Efficacy: 90.2 lumens/watt  
Spacing Criteria (0/90/45): 1.1 / 1.1 / 1.03  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

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: P580597  
CATALOG NUMBER: HCC4S40D010SL-HM43040840-41WDBB

### Luminous Intensity Polar Plot



Cooper Lighting Solutions Photometric Lab  
 1121 Highway 74 South  
 Peachtree City, GA 30269



TEST NUMBER: P580597

CATALOG NUMBER: HCC4S40D010SL-HM43040840-41WDBB

**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	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	113	110	107	105	111	108	106	103	104	102	100	100	99	97	97	96	94	93						93													
2	107	102	97	94	105	100	96	93	97	93	91	94	91	89	91	89	87	85						85													
3	101	94	89	84	99	93	88	84	90	86	82	87	84	81	85	82	80	78						78													
4	95	87	81	77	93	86	80	76	84	79	75	82	78	74	80	76	73	72						72													
5	90	81	75	70	88	80	74	70	78	73	69	76	72	68	75	71	68	66						66													
6	85	75	69	64	83	74	68	64	73	67	63	71	67	63	70	66	62	61						61													
7	80	70	64	59	79	69	63	59	68	63	59	67	62	58	66	61	58	56						56													
8	76	65	59	55	74	65	59	54	64	58	54	63	58	54	62	57	54	52						52													
9	72	61	55	51	71	61	55	51	60	54	50	59	54	50	58	53	50	49						49													
10	68	58	51	47	67	57	51	47	56	51	47	55	50	47	55	50	47	45						45													

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

	0°
0°	368939
5°	369271
10°	369971
15°	375390
20°	366036
25°	343427
30°	303769
35°	230985
40°	145543
45°	83555
50°	44308
55°	18386
60°	4934
65°	4144
70°	3065
75°	2716
80°	1989
85°	3963



TEST NUMBER: P580597  
 CATALOG NUMBER: HCC4S40D010SL-HM43040840-41WDBB

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	283.6	7.7
10°-20°	823.1	22.3
20°-30°	1148.8	31.1
30°-40°	945.3	25.6
40°-50°	389.4	10.5
50°-60°	87.7	2.4
60°-70°	14.1	0.4
70°-80°	5.2	0.1
80°-90°	1.9	0.1
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°	2255.6	61.0
0°-40°	3200.9	86.5
0°-60°	3678.1	99.4
0°-90°	3699.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3699.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2991	
5°	2982	284
15°	2940	823
25°	2523	1149
35°	1534	945
45°	479	389
55°	86	88
65°	14	14
75°	6	5
85°	3	2
90°	0	



TEST NUMBER: P580597  
CATALOG NUMBER: HCC4S40D010SL-HM43040840-41WDBB

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2991.1
2.5°	2976.7
5°	2982.4
7.5°	2971.1
10°	2953.9
12.5°	2945.4
15°	2939.7
17.5°	2888.4
20°	2788.6
22.5°	2663.2
25°	2523.4
27.5°	2355.2
30°	2132.8
32.5°	1859.1
35°	1534.0
37.5°	1206.1
40°	903.9
42.5°	658.7
45°	479.0
47.5°	342.1
50°	230.9
52.5°	145.4
55°	85.5
57.5°	42.8
60°	20.0
62.5°	17.2
65°	14.2
67.5°	11.4
70°	8.5
72.5°	5.7
75°	5.7
77.5°	2.8
80°	2.8
82.5°	2.8
85°	2.8
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)