

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: P592828

Luminaire Tested: **HCC4S40D010SL-HM43040950-41NDW**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P592828  
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: HCC4S40D010SL-HM43040950-41NDW  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" NARROW DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

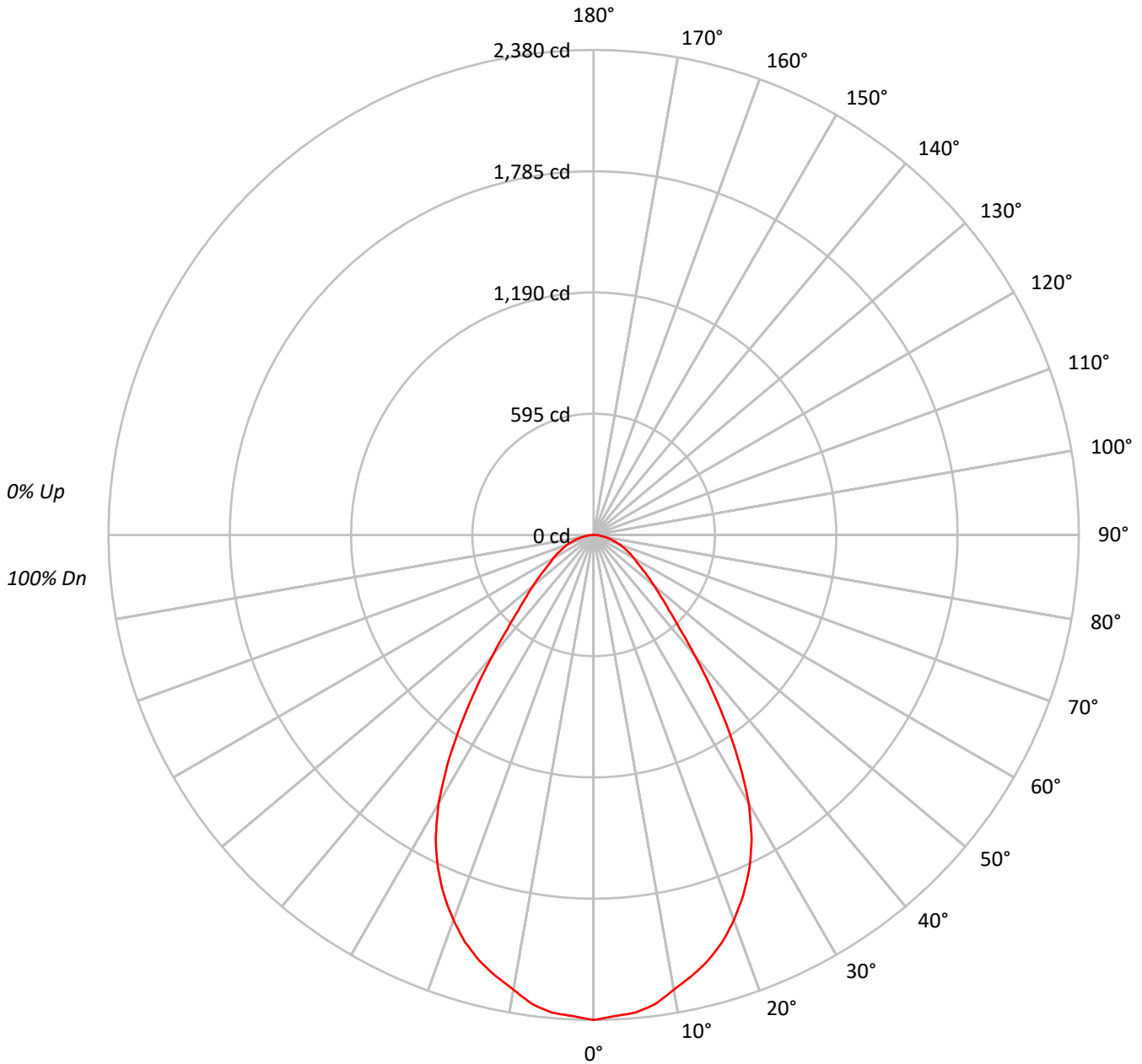
Lumens per Lamp: N/A  
Luminaire Lumens: 3341.9 lumens  
Efficiency: N/A  
Efficacy: 81.5 lumens/watt  
Spacing Criteria (0/90/45): 1.03 / 1.03 / 1.01  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

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: P592828  
CATALOG NUMBER: HCC4S40D010SL-HM43040950-41NDW

### Luminous Intensity Polar Plot





TEST NUMBER: P592828  
 CATALOG NUMBER: HCC4S40D010SL-HM43040950-41NDW

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

RF	20									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	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°	293600
5°	291403
10°	283825
15°	276349
20°	263980
25°	245941
30°	216561
35°	170800
40°	123966
45°	91091
50°	74109
55°	62148
60°	56320
65°	51747
70°	48181
75°	43987
80°	39636
85°	34390



TEST NUMBER: P592828  
 CATALOG NUMBER: HCC4S40D010SL-HM43040950-41NDW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	221.9	6.6
10°-20°	607.0	18.2
20°-30°	822.8	24.6
30°-40°	706.1	21.1
40°-50°	416.9	12.5
50°-60°	264.2	7.9
60°-70°	177.5	5.3
70°-80°	98.0	2.9
80°-90°	27.4	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°	1651.8	49.4
0°-40°	2357.8	70.6
0°-60°	3038.9	90.9
0°-90°	3341.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3341.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2380	
5°	2354	222
15°	2164	607
25°	1807	823
35°	1134	706
45°	522	417
55°	289	264
65°	177	178
75°	92	98
85°	24	27
90°	0	



TEST NUMBER: P592828  
CATALOG NUMBER: HCC4S40D010SL-HM43040950-41NDW

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2380.3
2.5°	2363.3
5°	2353.5
7.5°	2322.0
10°	2266.1
12.5°	2217.6
15°	2164.1
17.5°	2096.2
20°	2011.1
22.5°	1916.3
25°	1807.1
27.5°	1678.4
30°	1520.5
32.5°	1333.4
35°	1134.3
37.5°	942.4
40°	769.9
42.5°	626.6
45°	522.2
47.5°	446.9
50°	386.2
52.5°	335.2
55°	289.0
57.5°	252.6
60°	228.3
62.5°	204.0
65°	177.3
67.5°	155.5
70°	133.6
72.5°	111.8
75°	92.3
77.5°	72.9
80°	55.8
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)