

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: P580642

Luminaire Tested: **HCC4S40D010SL-HM43040930-41MDW**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P580642  
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: HCC4S40D010SL-HM43040930-41MDW  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" MEDIUM DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

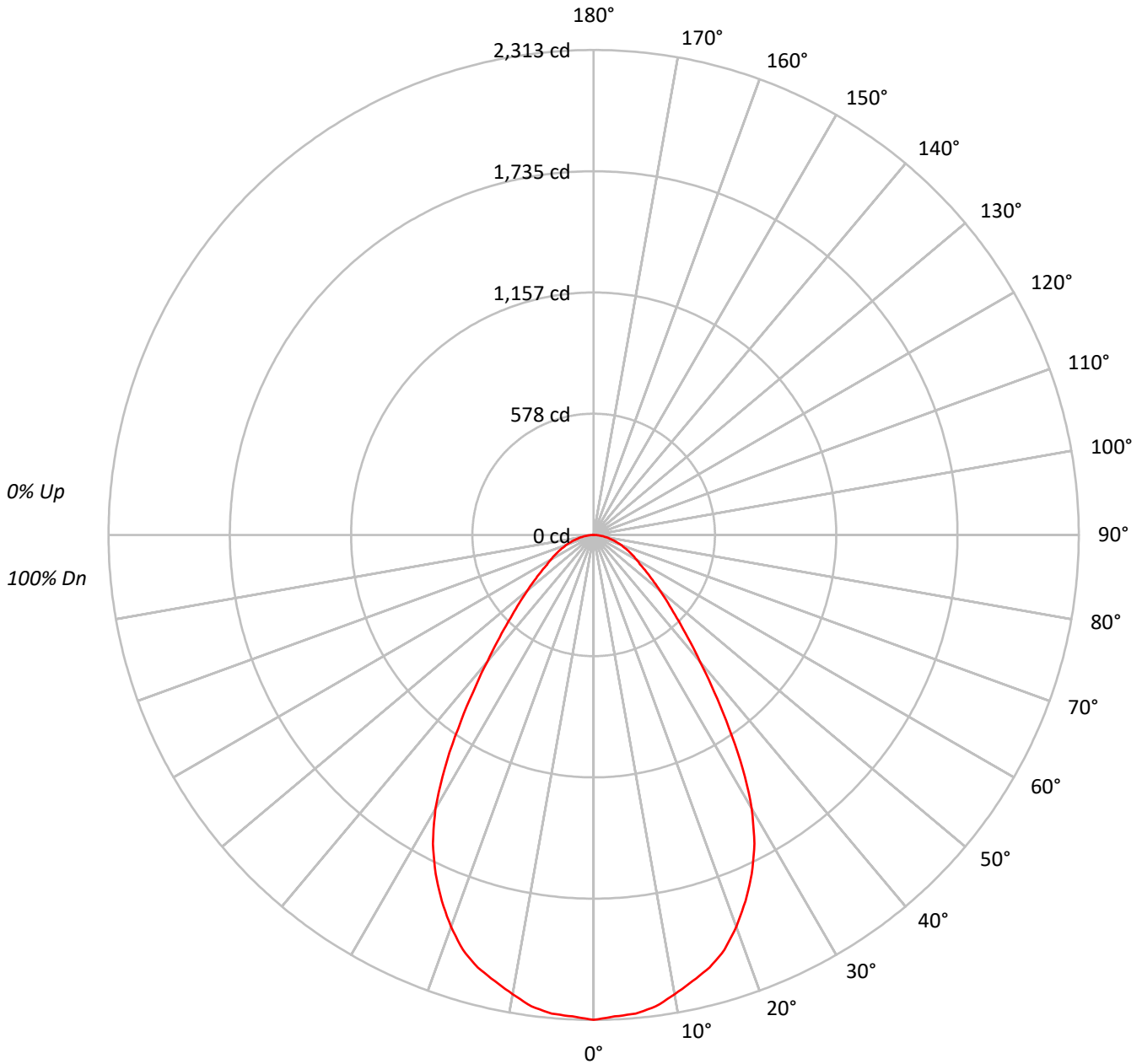
Lumens per Lamp: N/A  
Luminaire Lumens: 3364.7 lumens  
Efficiency: N/A  
Efficacy: 82.1 lumens/watt  
Spacing Criteria (0/90/45): 1.04 / 1.04 / 1.01  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

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: P580642  
CATALOG NUMBER: HCC4S40D010SL-HM43040930-41MDW

### Luminous Intensity Polar Plot





TEST NUMBER: P580642

CATALOG NUMBER: HCC4S40D010SL-HM43040930-41MDW

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

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

	0°
0°	285261
5°	283763
10°	278565
15°	272696
20°	261040
25°	242729
30°	214837
35°	169550
40°	126881
45°	97598
50°	79175
55°	65675
60°	58096
65°	53761
70°	49588
75°	45560
80°	41412
85°	32975



TEST NUMBER: P580642  
 CATALOG NUMBER: HCC4S40D010SL-HM43040930-41MDW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	216.7	6.4
10°-20°	598.9	17.8
20°-30°	813.2	24.2
30°-40°	704.4	20.9
40°-50°	442.2	13.1
50°-60°	278.2	8.3
60°-70°	182.8	5.4
70°-80°	100.8	3.0
80°-90°	27.6	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°	1628.7	48.4
0°-40°	2333.1	69.3
0°-60°	3053.5	90.8
0°-90°	3364.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3364.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2313	
5°	2292	217
15°	2136	599
25°	1784	813
35°	1126	704
45°	560	442
55°	305	278
65°	184	183
75°	96	101
85°	23	28
90°	0	



TEST NUMBER: P580642  
CATALOG NUMBER: HCC4S40D010SL-HM43040930-41MDW

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2312.7
2.5°	2298.7
5°	2291.8
7.5°	2268.5
10°	2224.1
12.5°	2179.8
15°	2135.5
17.5°	2074.9
20°	1988.7
22.5°	1890.7
25°	1783.5
27.5°	1660.0
30°	1508.4
32.5°	1324.2
35°	1126.0
37.5°	944.2
40°	788.0
42.5°	664.4
45°	559.5
47.5°	480.2
50°	412.6
52.5°	354.3
55°	305.4
57.5°	263.4
60°	235.5
62.5°	209.9
65°	184.2
67.5°	158.5
70°	137.5
72.5°	114.2
75°	95.6
77.5°	74.7
80°	58.3
82.5°	39.7
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)