

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: P580552

Luminaire Tested: **HCC4S40D010SL-HM43040827-41MDW**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580552
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-HM43040827-41MDW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" MEDIUM DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

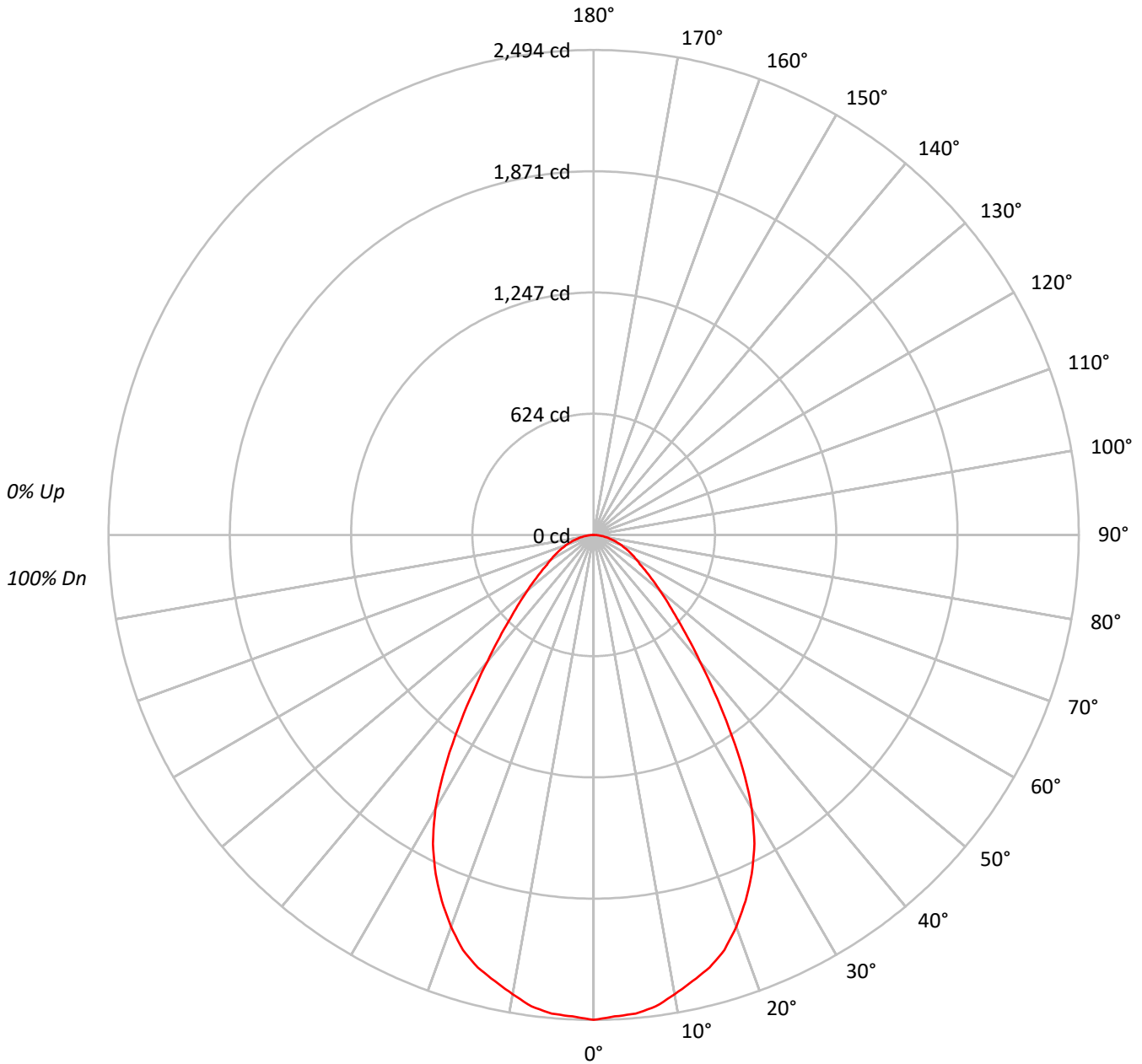
Lumens per Lamp: N/A
Luminaire Lumens: 3628.1 lumens
Efficiency: N/A
Efficacy: 88.5 lumens/watt
Spacing Criteria (0/90/45): 1.04 / 1.04 / 1.01
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 41
Input Voltage (V): NR
Input Current (A_{in}): 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: P580552
CATALOG NUMBER: HCC4S40D010SL-HM43040827-41MDW

Luminous Intensity Polar Plot





TEST NUMBER: P580552
 CATALOG NUMBER: HCC4S40D010SL-HM43040827-41MDW

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
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°	307587
5°	305964
10°	300371
15°	294035
20°	281451
25°	261728
30°	231658
35°	182831
40°	136816
45°	105238
50°	85373
55°	70815
60°	62635
65°	57964
70°	53483
75°	49087
80°	44679
85°	35522



TEST NUMBER: P580552
 CATALOG NUMBER: HCC4S40D010SL-HM43040827-41MDW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	233.6	6.4
10°-20°	645.7	17.8
20°-30°	876.8	24.2
30°-40°	759.5	20.9
40°-50°	476.9	13.1
50°-60°	300.0	8.3
60°-70°	197.1	5.4
70°-80°	108.7	3.0
80°-90°	29.7	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°	1756.2	48.4
0°-40°	2515.7	69.3
0°-60°	3292.6	90.8
0°-90°	3628.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3628.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2494	
5°	2471	234
15°	2303	646
25°	1923	877
35°	1214	760
45°	603	477
55°	329	300
65°	199	197
75°	103	109
85°	25	30
90°	0	



TEST NUMBER: P580552
CATALOG NUMBER: HCC4S40D010SL-HM43040827-41MDW

CANDELA DISTRIBUTION (FULL):

0°	
0°	2493.7
2.5°	2478.6
5°	2471.1
7.5°	2445.9
10°	2398.2
12.5°	2350.4
15°	2302.6
17.5°	2237.3
20°	2144.2
22.5°	2038.8
25°	1923.1
27.5°	1789.8
30°	1626.5
32.5°	1427.8
35°	1214.2
37.5°	1018.1
40°	849.7
42.5°	716.4
45°	603.3
47.5°	517.9
50°	444.9
52.5°	382.1
55°	329.3
57.5°	284.1
60°	253.9
62.5°	226.2
65°	198.6
67.5°	171.0
70°	148.3
72.5°	123.2
75°	103.0
77.5°	80.5
80°	62.9
82.5°	42.7
85°	25.1
87.5°	10.1
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)