

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: P580673

Luminaire Tested: **HCC4S40D010BZ-HM43040940-41WDH**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580673
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: HCC4S40D010BZ-HM43040940-41WDH
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

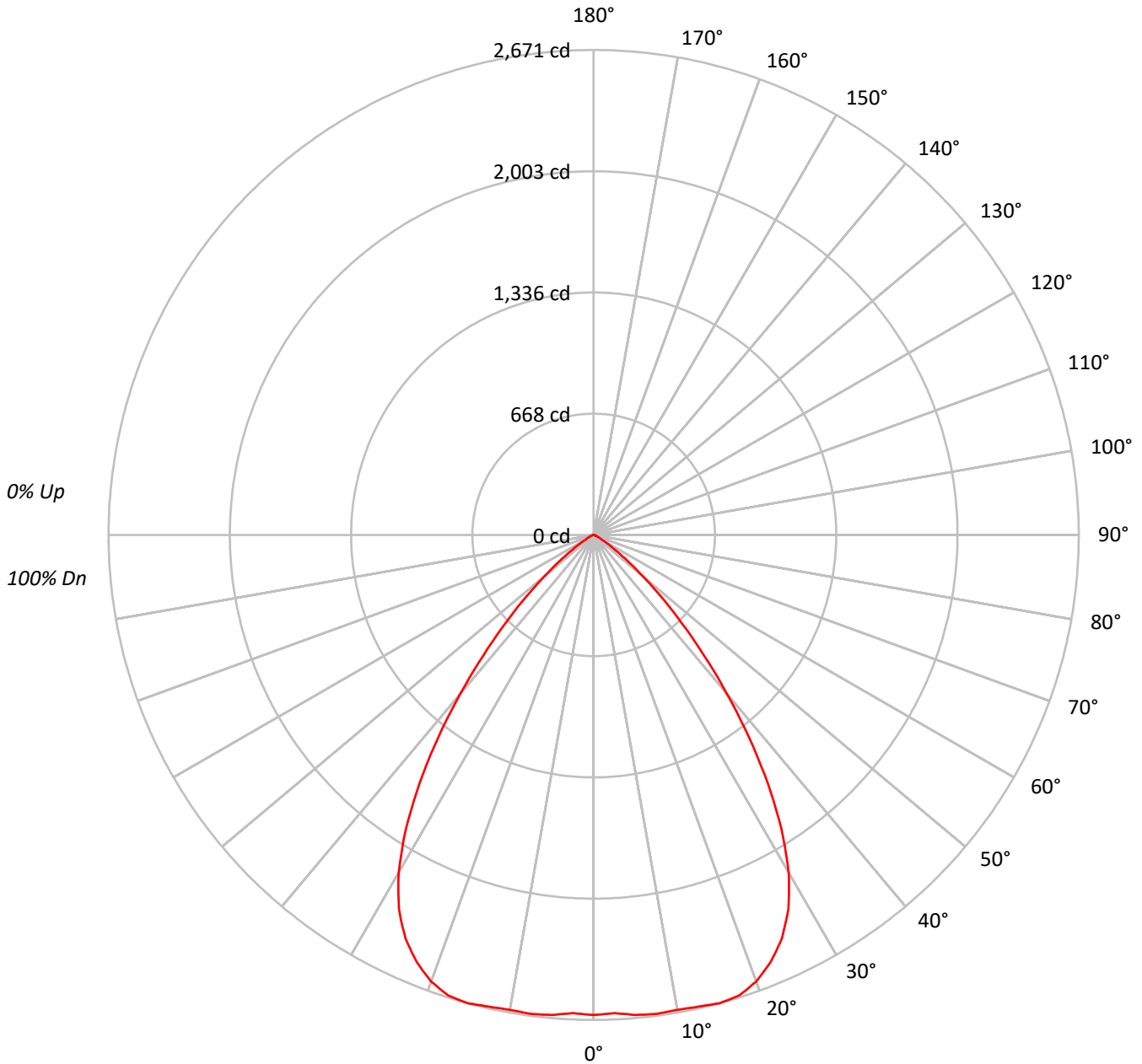
Lumens per Lamp: N/A
Luminaire Lumens: 3878.6 lumens
Efficiency: N/A
Efficacy: 94.6 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.11
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 41
Input Voltage (V): NR
Input Current (A_{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: P580673
CATALOG NUMBER: HCC4S40D010BZ-HM43040940-41WDH

Luminous Intensity Polar Plot





TEST NUMBER: P580673
 CATALOG NUMBER: HCC4S40D010BZ-HM43040940-41WDH

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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	326101
5°	328548
10°	332660
15°	341027
20°	343525
25°	333696
30°	305948
35°	251750
40°	183494
45°	119106
50°	67143
55°	31870
60°	12581
65°	7793
70°	5265
75°	3479
80°	1776
85°	3538



TEST NUMBER: P580673
 CATALOG NUMBER: HCC4S40D010BZ-HM43040940-41WDH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	253.4	6.5
10°-20°	752.9	19.4
20°-30°	1116.7	28.8
30°-40°	1031.4	26.6
40°-50°	538.5	13.9
50°-60°	147.6	3.8
60°-70°	28.4	0.7
70°-80°	8.0	0.2
80°-90°	1.7	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°	2123.0	54.7
0°-40°	3154.4	81.3
0°-60°	3840.5	99.0
0°-90°	3878.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3878.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2644	
5°	2654	253
15°	2671	753
25°	2452	1117
35°	1672	1031
45°	683	539
55°	148	148
65°	27	28
75°	7	8
85°	2	2
90°	0	



TEST NUMBER: P580673
CATALOG NUMBER: HCC4S40D010BZ-HM43040940-41WDH

CANDELA DISTRIBUTION (FULL):

0°	
0°	2643.8
2.5°	2636.5
5°	2653.5
7.5°	2660.8
10°	2656.0
12.5°	2660.8
15°	2670.6
17.5°	2660.8
20°	2617.1
22.5°	2546.6
25°	2451.9
27.5°	2323.0
30°	2148.1
32.5°	1927.0
35°	1671.9
37.5°	1404.5
40°	1139.6
42.5°	896.7
45°	682.8
47.5°	500.5
50°	349.9
52.5°	233.3
55°	148.2
57.5°	87.4
60°	51.0
62.5°	36.4
65°	26.7
67.5°	19.4
70°	14.6
72.5°	9.8
75°	7.3
77.5°	4.8
80°	2.5
82.5°	2.5
85°	2.5
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)