

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: P580670

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

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580670
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-10)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC4S40D010BZ-HM43040940-41WDWB
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

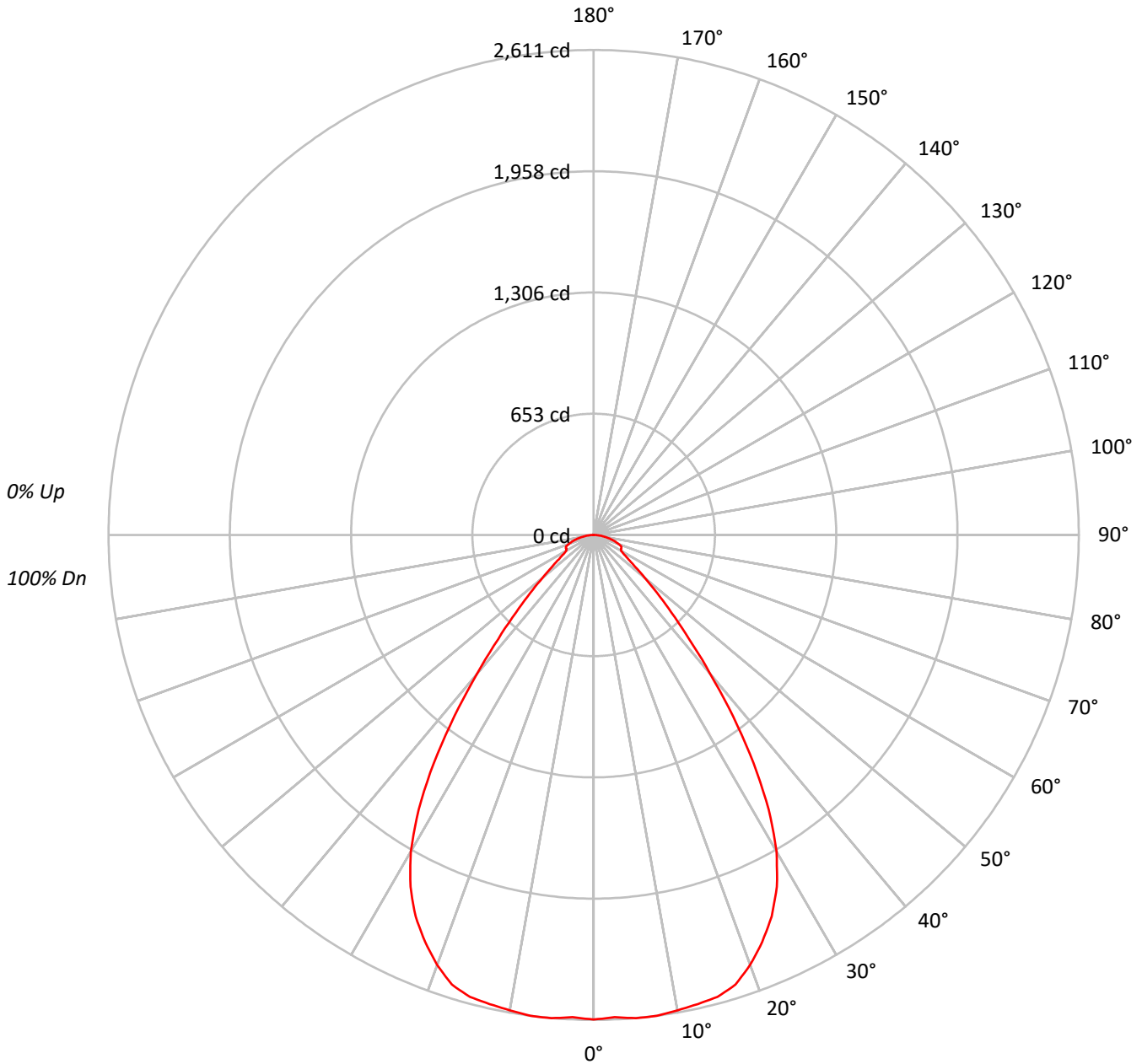
Lumens per Lamp: N/A
Luminaire Lumens: 3919.9 lumens
Efficiency: N/A
Efficacy: 95.6 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.14 / 1.07
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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: P580670
CATALOG NUMBER: HCC4S40D010BZ-HM43040940-41WDWB

Luminous Intensity Polar Plot





TEST NUMBER: P580670

CATALOG NUMBER: HCC4S40D010BZ-HM43040940-41WDWB

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
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90			90
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	80			80
3	98	89	83	78	95	88	82	78	85	80	76	83	78	75	80	77	74	72			72
4	91	82	75	70	89	81	74	69	78	73	69	76	72	68	74	70	67	65			65
5	86	75	68	63	84	74	68	63	72	67	62	71	65	61	69	64	61	59			59
6	80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	59	56	54			54
7	76	64	57	52	74	64	57	52	62	56	52	61	56	51	60	55	51	49			49
8	71	60	53	48	70	59	53	48	58	52	48	57	51	47	56	51	47	46			46
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42			42
10	64	52	46	41	62	52	45	41	51	45	41	50	45	41	49	44	41	39			39

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	321809
5°	323335
10°	325558
15°	328806
20°	323337
25°	308450
30°	280254
35°	226047
40°	156846
45°	102970
50°	68985
55°	49095
60°	41962
65°	48215
70°	51716
75°	49802
80°	44821
85°	41183



TEST NUMBER: P580670
 CATALOG NUMBER: HCC4S40D010BZ-HM43040940-41WDWB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	248.9	6.3
10°-20°	723.4	18.5
20°-30°	1033.5	26.4
30°-40°	923.2	23.6
40°-50°	473.5	12.1
50°-60°	215.2	5.5
60°-70°	160.5	4.1
70°-80°	109.2	2.8
80°-90°	32.4	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°	2005.7	51.2
0°-40°	2929.0	74.7
0°-60°	3617.7	92.3
0°-90°	3919.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3919.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2609	
5°	2611	249
15°	2575	723
25°	2266	1033
35°	1501	923
45°	590	474
55°	228	215
65°	165	161
75°	104	109
85°	29	32
90°	0	



TEST NUMBER: P580670
CATALOG NUMBER: HCC4S40D010BZ-HM43040940-41WDWB

CANDELA DISTRIBUTION (FULL):

0°	
0°	2609.0
2.5°	2599.3
5°	2611.4
7.5°	2611.4
10°	2599.3
12.5°	2587.2
15°	2574.9
17.5°	2538.5
20°	2463.3
22.5°	2370.9
25°	2266.4
27.5°	2135.3
30°	1967.7
32.5°	1753.9
35°	1501.2
37.5°	1231.6
40°	974.1
42.5°	760.4
45°	590.3
47.5°	461.5
50°	359.5
52.5°	281.8
55°	228.3
57.5°	191.9
60°	170.1
62.5°	165.2
65°	165.2
67.5°	160.3
70°	143.4
72.5°	123.9
75°	104.5
77.5°	82.6
80°	63.1
82.5°	46.2
85°	29.1
87.5°	12.1
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)