

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: P580543

Luminaire Tested: **HCC4S40D010BZ-HM43040827-41WDBB**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580543
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-11)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC4S40D010BZ-HM43040827-41WDBB
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, BLACK BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

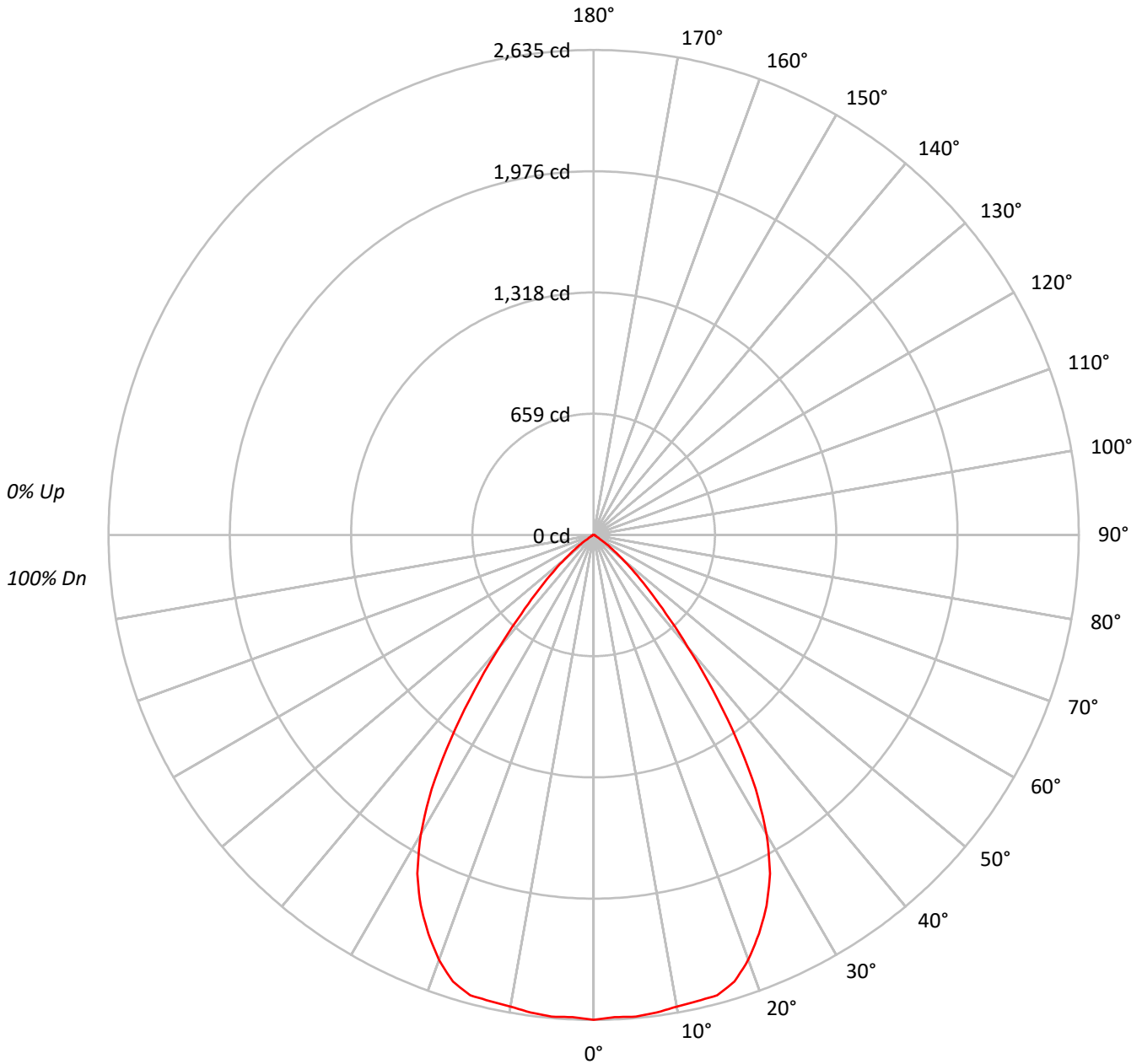
Lumens per Lamp: N/A
Luminaire Lumens: 3258.7 lumens
Efficiency: N/A
Efficacy: 79.5 lumens/watt
Spacing Criteria (0/90/45): 1.1 / 1.1 / 1.03
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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: P580543
CATALOG NUMBER: HCC4S40D010BZ-HM43040827-41WDBB

Luminous Intensity Polar Plot



Cooper Lighting Solutions Photometric Lab
 1121 Highway 74 South
 Peachtree City, GA 30269



TEST NUMBER: P580543

CATALOG NUMBER: HCC4S40D010BZ-HM43040827-41WDBB

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	113	110	107	105	111	108	106	103	104	102	100	100	99	97	97	96	94	93	93	93	93
2	107	102	97	94	105	100	96	93	97	93	91	94	91	89	91	89	87	85	85	85	85
3	101	94	89	84	99	93	88	84	90	86	82	87	84	81	85	82	80	78	78	78	78
4	95	87	81	77	93	86	80	76	84	79	75	82	78	74	80	76	73	72	72	72	72
5	90	81	75	70	88	80	74	70	78	73	69	76	72	68	75	71	68	66	66	66	66
6	85	75	69	64	83	74	68	64	73	67	63	71	67	63	70	66	62	61	61	61	61
7	80	70	64	59	79	69	63	59	68	63	59	67	62	58	66	61	58	56	56	56	56
8	76	65	59	55	74	65	59	54	64	58	54	63	58	54	62	57	54	52	52	52	52
9	72	61	55	51	71	61	55	51	60	54	50	59	54	50	58	53	50	49	49	49	49
10	68	58	51	47	67	57	51	47	56	51	47	55	50	47	55	50	47	45	45	45	45

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	324991
5°	325304
10°	325921
15°	330684
20°	322431
25°	302516
30°	267592
35°	203490
40°	128201
45°	73595
50°	39050
55°	16193
60°	4342
65°	3677
70°	2705
75°	2383
80°	1776
85°	3538



TEST NUMBER: P580543
 CATALOG NUMBER: HCC4S40D010BZ-HM43040827-41WDBB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	249.9	7.7
10°-20°	725.1	22.3
20°-30°	1011.9	31.1
30°-40°	832.8	25.6
40°-50°	343.0	10.5
50°-60°	77.3	2.4
60°-70°	12.4	0.4
70°-80°	4.6	0.1
80°-90°	1.7	0.1
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°	1986.9	61.0
0°-40°	2819.7	86.5
0°-60°	3240.0	99.4
0°-90°	3258.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3258.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2635	
5°	2627	250
15°	2590	725
25°	2223	1012
35°	1351	833
45°	422	343
55°	75	77
65°	13	12
75°	5	5
85°	2	2
90°	0	



TEST NUMBER: P580543
CATALOG NUMBER: HCC4S40D010BZ-HM43040827-41WDBB

CANDELA DISTRIBUTION (FULL):

	0°
0°	2634.8
2.5°	2622.2
5°	2627.3
7.5°	2617.2
10°	2602.2
12.5°	2594.7
15°	2589.6
17.5°	2544.3
20°	2456.4
22.5°	2345.9
25°	2222.8
27.5°	2074.6
30°	1878.8
32.5°	1637.7
35°	1351.4
37.5°	1062.5
40°	796.2
42.5°	580.2
45°	421.9
47.5°	301.4
50°	203.5
52.5°	128.1
55°	75.3
57.5°	37.7
60°	17.6
62.5°	15.0
65°	12.6
67.5°	10.1
70°	7.5
72.5°	5.0
75°	5.0
77.5°	2.5
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)