

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: P592802

Luminaire Tested: **HCC4S40D010BZ-HM43040850-41MDH**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P592802
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-5)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC4S40D010BZ-HM43040850-41MDH
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" MEDIUM DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

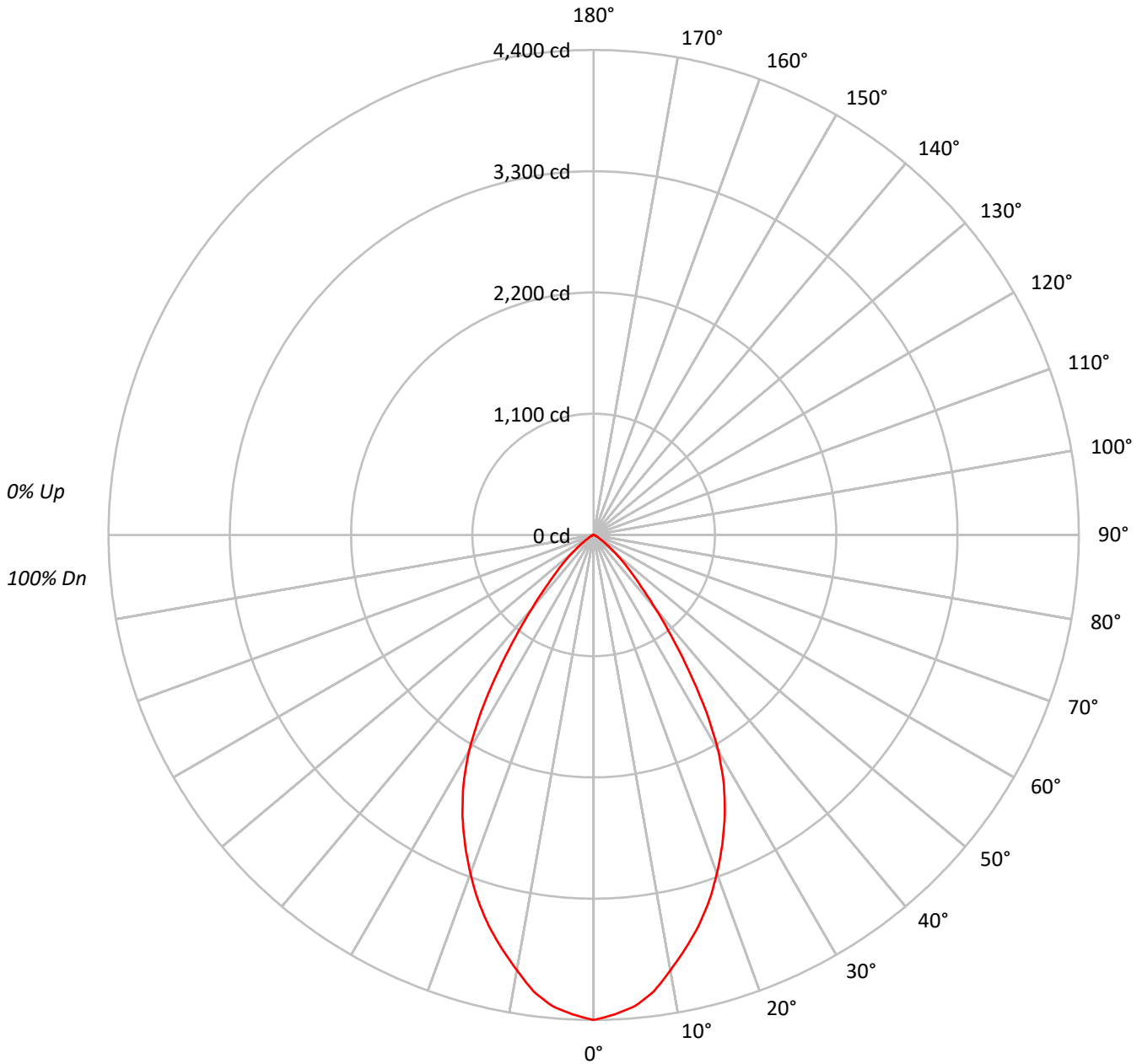
Lumens per Lamp: N/A
Luminaire Lumens: 4192.7 lumens
Efficiency: N/A
Efficacy: 102.3 lumens/watt
Spacing Criteria (0/90/45): 0.9 / 0.9 / 0.91
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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: P592802
CATALOG NUMBER: HCC4S40D010BZ-HM43040850-41MDH

Luminous Intensity Polar Plot





TEST NUMBER: P592802
 CATALOG NUMBER: HCC4S40D010BZ-HM43040850-41MDH

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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	113	110	108	105	111	108	106	104	104	102	100	100	99	97	97	96	95	93
2	107	102	98	94	105	100	96	93	97	94	91	94	91	89	91	89	87	86
3	101	95	89	85	99	93	88	84	91	86	83	88	85	82	86	83	81	79
4	96	88	82	78	94	87	81	77	85	80	76	82	79	75	81	77	74	73
5	91	82	76	71	89	81	75	71	79	74	70	77	73	70	76	72	69	67
6	86	76	70	66	84	76	70	65	74	69	65	73	68	64	71	67	64	62
7	81	71	65	61	80	71	65	61	69	64	60	68	63	60	67	63	60	58
8	77	67	61	56	76	66	60	56	65	60	56	64	59	56	63	59	56	54
9	73	63	57	53	72	63	57	53	62	56	52	61	56	52	60	55	52	51
10	70	59	53	49	69	59	53	49	58	53	49	57	52	49	57	52	49	47

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	542782
5°	531446
10°	502221
15°	469069
20°	429003
25°	383085
30°	321700
35°	226302
40°	139601
45°	83573
50°	49259
55°	24537
60°	12655
65°	8318
70°	5121
75°	4051
80°	1989
85°	3963



TEST NUMBER: P592802
 CATALOG NUMBER: HCC4S40D010BZ-HM43040850-41MDH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	400.8	9.6
10°-20°	1026.8	24.5
20°-30°	1280.5	30.5
30°-40°	943.2	22.5
40°-50°	387.9	9.3
50°-60°	113.3	2.7
60°-70°	29.1	0.7
70°-80°	9.0	0.2
80°-90°	1.9	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°	2708.1	64.6
0°-40°	3651.4	87.1
0°-60°	4152.7	99.0
0°-90°	4192.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4192.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4400	
5°	4292	401
15°	3673	1027
25°	2815	1281
35°	1503	943
45°	479	388
55°	114	113
65°	28	29
75°	8	9
85°	3	2
90°	0	



TEST NUMBER: P592802

CATALOG NUMBER: HCC4S40D010BZ-HM43040850-41MDH

CANDELA DISTRIBUTION (FULL):

	0°
0°	4400.5
2.5°	4354.9
5°	4292.2
7.5°	4178.1
10°	4009.8
12.5°	3844.4
15°	3673.3
17.5°	3482.2
20°	3268.3
22.5°	3045.9
25°	2814.8
27.5°	2558.2
30°	2258.7
32.5°	1896.5
35°	1502.9
37.5°	1155.1
40°	867.0
42.5°	641.7
45°	479.1
47.5°	353.7
50°	256.7
52.5°	176.8
55°	114.1
57.5°	68.5
60°	51.3
62.5°	37.1
65°	28.5
67.5°	20.0
70°	14.2
72.5°	11.4
75°	8.5
77.5°	5.7
80°	2.8
82.5°	2.8
85°	2.8
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)