

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: P580545

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

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580545
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: HCC4S40D010SL-HM43040827-41MDH
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" MEDIUM DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

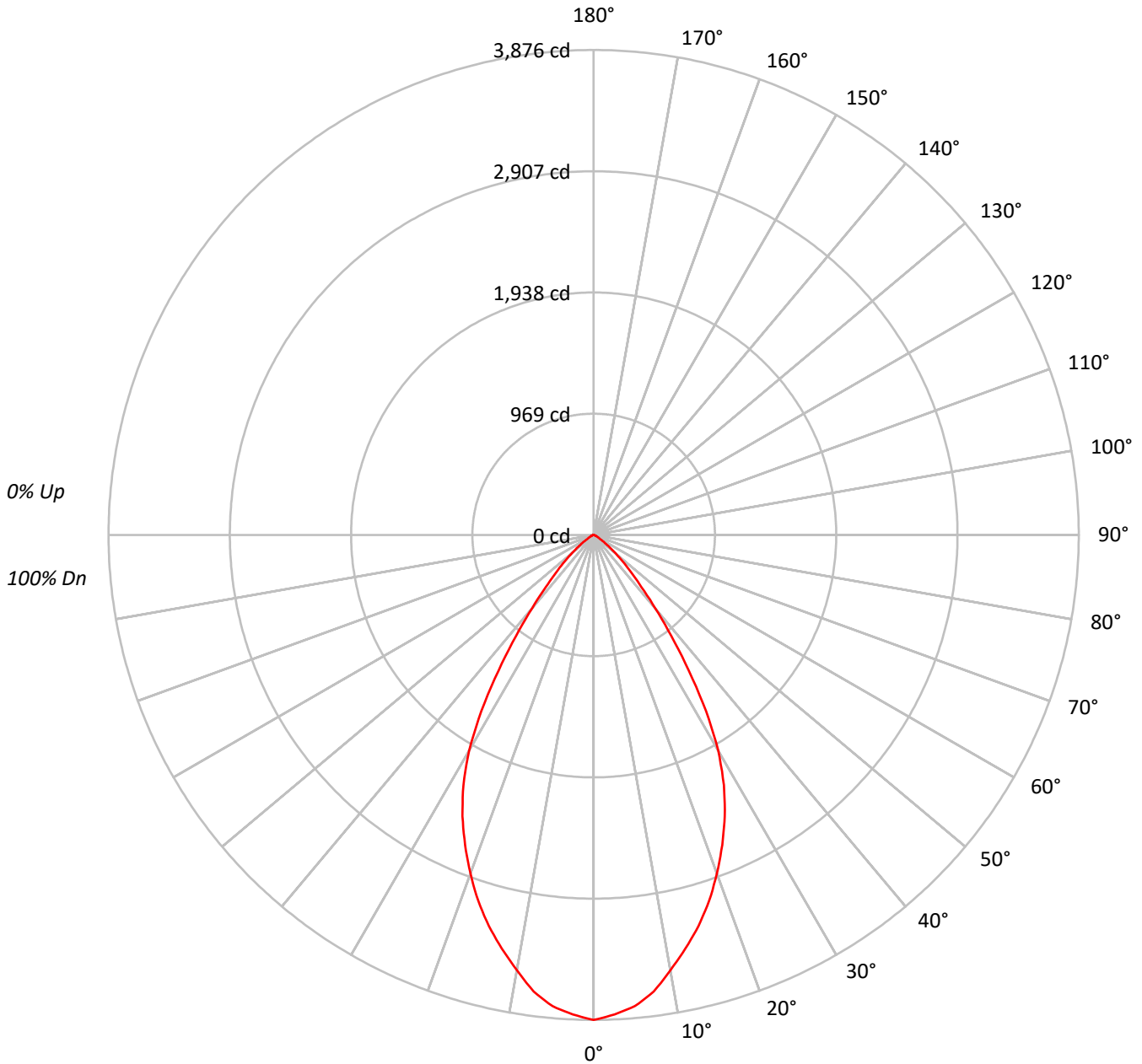
Lumens per Lamp: N/A
Luminaire Lumens: 3693.4 lumens
Efficiency: N/A
Efficacy: 90.1 lumens/watt
Spacing Criteria (0/90/45): 0.9 / 0.9 / 0.91
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 41
Input Voltage (V): NR
Input Current (Ain): 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: P580545
CATALOG NUMBER: HCC4S40D010SL-HM43040827-41MDH

Luminous Intensity Polar Plot





TEST NUMBER: P580545

CATALOG NUMBER: HCC4S40D010SL-HM43040827-41MDH

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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	478137
5°	468151
10°	442415
15°	413214
20°	377915
25°	337479
30°	283402
35°	199364
40°	122968
45°	73630
50°	43387
55°	21591
60°	11150
65°	7326
70°	4544
75°	3574
80°	1776
85°	3538



TEST NUMBER: P580545
 CATALOG NUMBER: HCC4S40D010SL-HM43040827-41MDH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	353.1	9.6
10°-20°	904.5	24.5
20°-30°	1128.0	30.5
30°-40°	830.9	22.5
40°-50°	341.7	9.3
50°-60°	99.8	2.7
60°-70°	25.7	0.7
70°-80°	7.9	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°	2385.6	64.6
0°-40°	3216.5	87.1
0°-60°	3658.1	99.0
0°-90°	3693.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3693.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3876	
5°	3781	353
15°	3236	905
25°	2480	1128
35°	1324	831
45°	422	342
55°	100	100
65°	25	26
75°	8	8
85°	2	2
90°	0	



TEST NUMBER: P580545
CATALOG NUMBER: HCC4S40D010SL-HM43040827-41MDH

CANDELA DISTRIBUTION (FULL):

	0°
0°	3876.4
2.5°	3836.3
5°	3781.0
7.5°	3680.5
10°	3532.3
12.5°	3386.5
15°	3235.9
17.5°	3067.5
20°	2879.1
22.5°	2683.1
25°	2479.7
27.5°	2253.5
30°	1989.8
32.5°	1670.6
35°	1324.0
37.5°	1017.5
40°	763.7
42.5°	565.3
45°	422.1
47.5°	311.5
50°	226.1
52.5°	155.7
55°	100.4
57.5°	60.3
60°	45.2
62.5°	32.6
65°	25.1
67.5°	17.6
70°	12.6
72.5°	10.1
75°	7.5
77.5°	5.0
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)