

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: P592804

Luminaire Tested: **HCC4S40D010MB-HM43040850-41WDH**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P592804
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: HCC4S40D010MB-HM43040850-41WDH
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

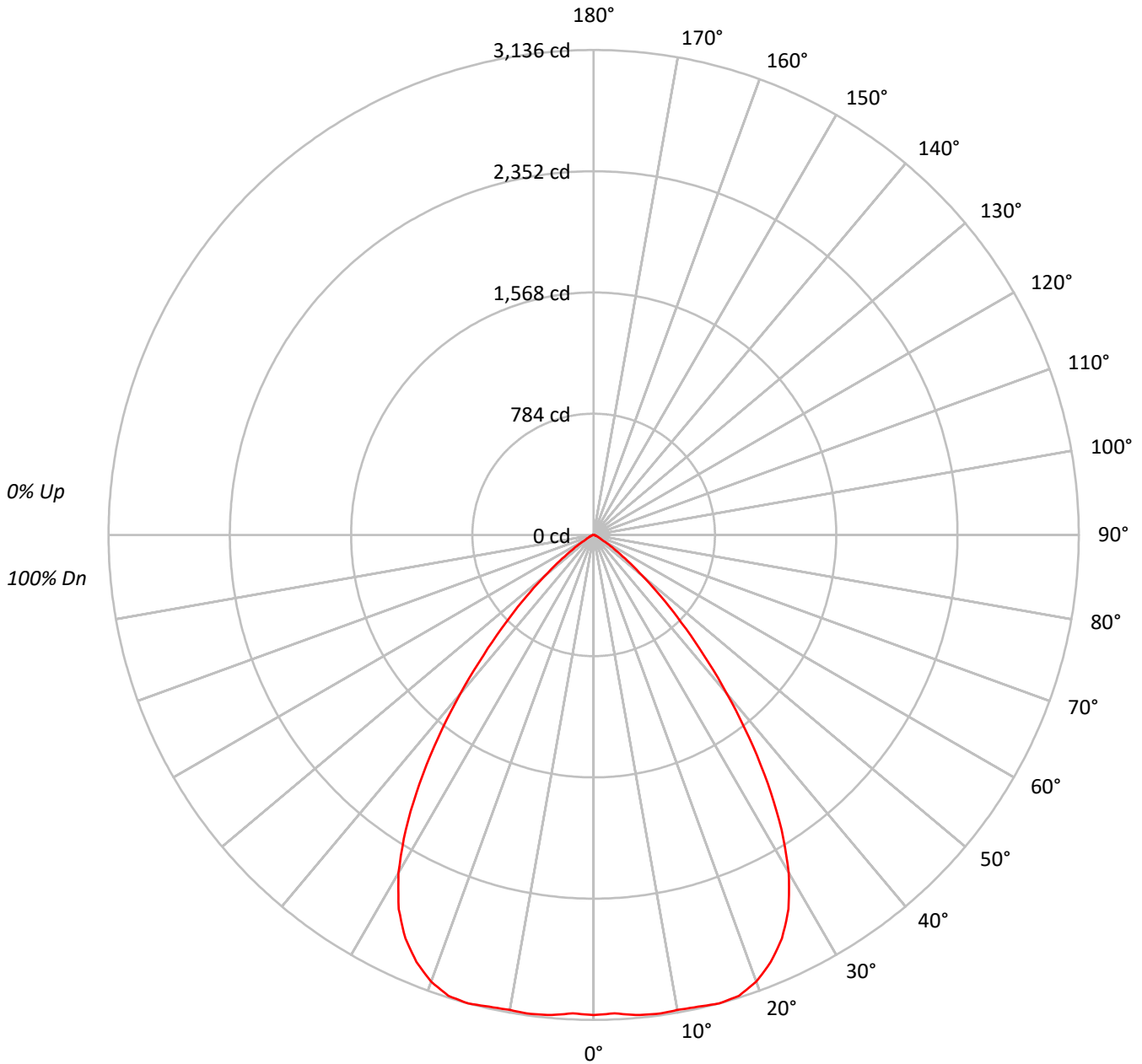
Lumens per Lamp: N/A
Luminaire Lumens: 4555.0 lumens
Efficiency: N/A
Efficacy: 111.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.11
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 41
Input Voltage (V): NR
Input Current (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: P592804
CATALOG NUMBER: HCC4S40D010MB-HM43040850-41WDH

Luminous Intensity Polar Plot





TEST NUMBER: P592804

CATALOG NUMBER: HCC4S40D010MB-HM43040850-41WDH

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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	382964
5°	385850
10°	390662
15°	400483
20°	403420
25°	391877
30°	359301
35°	295628
40°	215504
45°	139881
50°	78868
55°	37440
60°	14801
65°	9164
70°	6203
75°	4051
80°	1989
85°	3963



TEST NUMBER: P592804
 CATALOG NUMBER: HCC4S40D010MB-HM43040850-41WDH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	297.6	6.5
10°-20°	884.2	19.4
20°-30°	1311.4	28.8
30°-40°	1211.3	26.6
40°-50°	632.5	13.9
50°-60°	173.4	3.8
60°-70°	33.4	0.7
70°-80°	9.4	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°	2493.2	54.7
0°-40°	3704.4	81.3
0°-60°	4510.3	99.0
0°-90°	4555.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4555.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3105	
5°	3116	298
15°	3136	884
25°	2879	1311
35°	1963	1211
45°	802	633
55°	174	173
65°	31	33
75°	8	9
85°	3	2
90°	0	



TEST NUMBER: P592804
CATALOG NUMBER: HCC4S40D010MB-HM43040850-41WDH

CANDELA DISTRIBUTION (FULL):

0°	
0°	3104.8
2.5°	3096.3
5°	3116.3
7.5°	3124.8
10°	3119.1
12.5°	3124.8
15°	3136.2
17.5°	3124.8
20°	3073.4
22.5°	2990.7
25°	2879.4
27.5°	2728.2
30°	2522.7
32.5°	2263.0
35°	1963.3
37.5°	1649.4
40°	1338.4
42.5°	1053.1
45°	801.9
47.5°	587.9
50°	411.0
52.5°	274.0
55°	174.1
57.5°	102.7
60°	60.0
62.5°	42.8
65°	31.4
67.5°	22.9
70°	17.2
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)