

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: P580607

Luminaire Tested: **HCC4S40D010SL-HM43040840-41NDW**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580607
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-3)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC4S40D010SL-HM43040840-41NDW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" NARROW DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

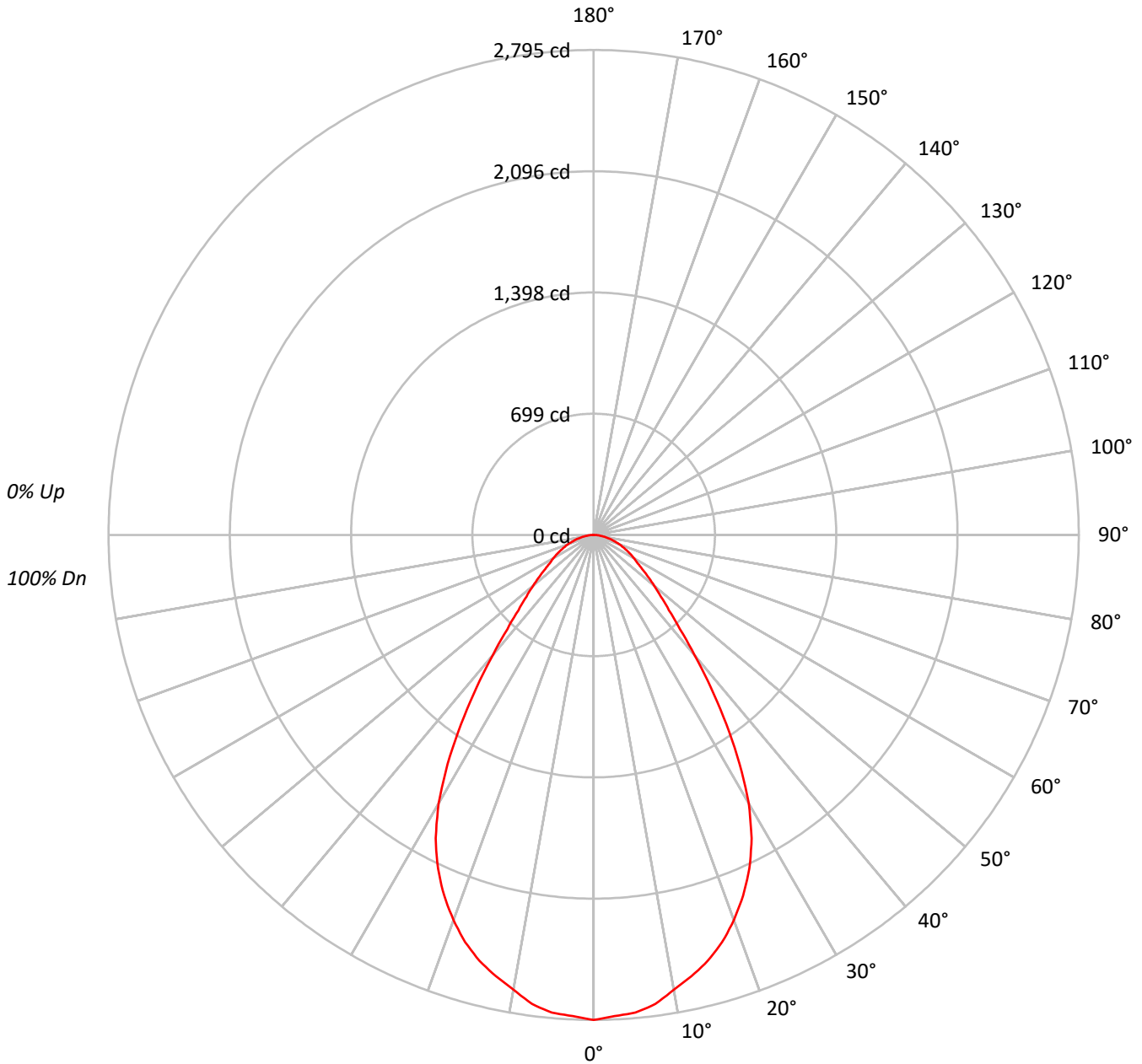
Lumens per Lamp: N/A
Luminaire Lumens: 3924.6 lumens
Efficiency: N/A
Efficacy: 95.7 lumens/watt
Spacing Criteria (0/90/45): 1.03 / 1.03 / 1.01
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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: P580607
CATALOG NUMBER: HCC4S40D010SL-HM43040840-41NDW

Luminous Intensity Polar Plot





TEST NUMBER: P580607
 CATALOG NUMBER: HCC4S40D010SL-HM43040840-41NDW

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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	111	108	104	101	109	105	102	100	101	99	97	98	96	94	94	92	91	89		
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79		
3	97	88	82	77	95	87	81	76	84	79	75	82	77	74	79	76	73	71		
4	90	81	74	68	88	80	73	68	77	72	67	75	70	66	73	69	65	64		
5	85	74	67	61	83	73	66	61	71	65	60	69	64	60	68	63	59	58		
6	79	68	61	56	78	67	60	55	66	60	55	64	59	55	63	58	54	52		
7	75	63	56	51	73	62	56	51	61	55	50	60	54	50	59	53	50	48		
8	70	59	52	47	69	58	51	46	57	51	46	56	50	46	55	50	46	44		
9	66	55	48	43	65	54	47	43	53	47	43	52	47	43	51	46	42	41		
10	63	51	44	40	62	51	44	40	50	44	40	49	43	39	48	43	39	38		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	344800
5°	342230
10°	333336
15°	324541
20°	310014
25°	288825
30°	254318
35°	200584
40°	145591
45°	106982
50°	87042
55°	72987
60°	66138
65°	60795
70°	56548
75°	51660
80°	46597
85°	40334



TEST NUMBER: P580607
 CATALOG NUMBER: HCC4S40D010SL-HM43040840-41NDW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	260.6	6.6
10°-20°	712.9	18.2
20°-30°	966.3	24.6
30°-40°	829.2	21.1
40°-50°	489.6	12.5
50°-60°	310.2	7.9
60°-70°	208.5	5.3
70°-80°	115.0	2.9
80°-90°	32.2	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°	1939.8	49.4
0°-40°	2769.0	70.6
0°-60°	3568.9	90.9
0°-90°	3924.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3924.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2795	
5°	2764	261
15°	2542	713
25°	2122	966
35°	1332	829
45°	613	490
55°	339	310
65°	208	208
75°	108	115
85°	28	32
90°	0	



TEST NUMBER: P580607
CATALOG NUMBER: HCC4S40D010SL-HM43040840-41NDW

CANDELA DISTRIBUTION (FULL):

	0°
0°	2795.4
2.5°	2775.4
5°	2764.0
7.5°	2726.9
10°	2661.4
12.5°	2604.3
15°	2541.5
17.5°	2461.6
20°	2361.8
22.5°	2250.5
25°	2122.2
27.5°	1971.1
30°	1785.6
32.5°	1566.0
35°	1332.1
37.5°	1106.8
40°	904.2
42.5°	735.9
45°	613.3
47.5°	524.9
50°	453.6
52.5°	393.6
55°	339.4
57.5°	296.6
60°	268.1
62.5°	239.6
65°	208.3
67.5°	182.6
70°	156.8
72.5°	131.2
75°	108.4
77.5°	85.5
80°	65.6
82.5°	45.6
85°	28.5
87.5°	11.4
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)