

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: P579768

Luminaire Tested: **HCC4S10D010SL-HM40525927-41WDW**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P579768
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-9)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC4S10D010SL-HM40525927-41WDW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

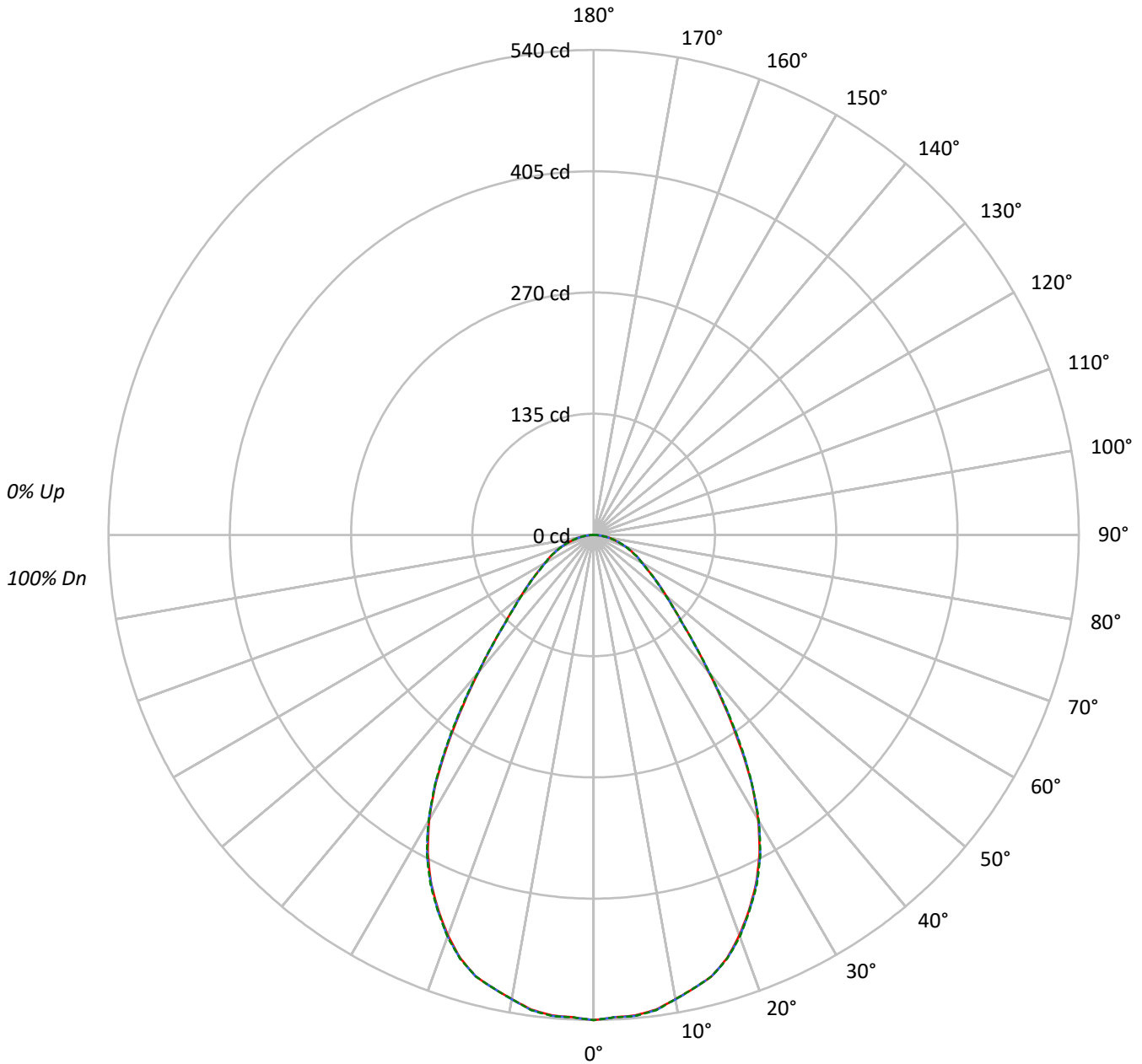
Lumens per Lamp: N/A
Luminaire Lumens: 833.7 lumens
Efficiency: N/A
Efficacy: 84.2 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.07 / 1.04
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 9.9
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: P579768
CATALOG NUMBER: HCC4S10D010SL-HM40525927-41WDW

Luminous Intensity Polar Plot



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



TEST NUMBER: P579768

CATALOG NUMBER: HCC4S10D010SL-HM40525927-41WDW

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	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			
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	94	92	90	89					89			
2	103	97	91	87	101	95	90	86	91	87	84	88	85	82	85	83	80	78					78			
3	96	87	81	76	94	86	80	75	83	78	74	81	76	72	78	74	71	69					69			
4	90	80	72	67	87	78	72	66	76	70	66	74	69	65	72	68	64	62					62			
5	84	73	65	60	82	72	65	59	70	64	59	68	63	58	66	62	58	56					56			
6	78	67	59	54	77	66	59	54	64	58	53	63	57	53	61	56	53	51					51			
7	73	62	54	49	72	61	54	49	60	53	49	58	53	48	57	52	48	46					46			
8	69	57	50	45	68	57	50	45	55	49	45	54	49	44	53	48	44	42					42			
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	45	41	39					39			
10	61	50	43	38	60	49	43	38	48	42	38	48	42	38	47	42	38	36					36			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	66644	66644	66644
5°	66490	66564	66564
10°	65718	65780	65718
15°	64934	64934	64934
20°	62257	62415	62481
25°	58236	58317	58467
30°	52185	52342	52342
35°	42357	42704	42794
40°	31978	32155	32252
45°	24491	24404	24404
50°	20187	20072	20072
55°	17333	17204	17204
60°	15468	15320	15320
65°	14505	14505	14505
70°	13488	13488	13488
75°	12248	12534	12248
80°	11578	11152	11578
85°	9482	9482	9482



TEST NUMBER: P579768
 CATALOG NUMBER: HCC4S10D010SL-HM40525927-41WDW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.9	6.1
10°-20°	142.5	17.1
20°-30°	195.8	23.5
30°-40°	176.0	21.1
40°-50°	111.3	13.3
50°-60°	72.6	8.7
60°-70°	49.2	5.9
70°-80°	27.7	3.3
80°-90°	7.8	0.9
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°	389.2	46.7
0°-40°	565.2	67.8
0°-60°	749.1	89.8
0°-90°	833.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	833.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	540	540	540	540	540	
5°	537	537	538	538	538	51
15°	508	508	508	508	508	142
25°	428	428	428	430	430	195
35°	281	282	284	285	284	175
45°	140	140	140	140	140	111
55°	81	81	80	81	80	73
65°	50	50	50	50	50	49
75°	26	26	26	26	26	28
85°	7	7	7	7	7	8
90°	0	0	0	0	0	



TEST NUMBER: P579768

CATALOG NUMBER: HCC4S10D010SL-HM40525927-41WDW

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	540.3	540.3	540.3	540.3	540.3
2.5°	537.6	537.6	537.6	537.6	537.6
5°	537.0	537.0	537.6	537.6	537.6
7.5°	533.0	533.6	533.6	533.6	533.6
10°	524.7	524.7	525.2	525.2	524.7
12.5°	516.9	516.9	516.9	517.4	516.9
15°	508.5	508.5	508.5	508.5	508.5
17.5°	493.9	494.5	494.5	494.5	494.5
20°	474.3	475.5	475.5	476.0	476.0
22.5°	452.0	452.5	453.0	453.6	453.0
25°	427.9	428.5	428.5	429.6	429.6
27.5°	399.9	400.5	401.6	401.6	401.6
30°	366.4	366.9	367.5	367.5	367.5
32.5°	326.7	326.7	327.7	328.3	327.7
35°	281.3	282.5	283.6	284.7	284.2
37.5°	238.3	239.4	240.0	240.0	240.6
40°	198.6	199.7	199.7	200.9	200.3
42.5°	167.3	166.7	166.7	167.9	167.3
45°	140.4	139.9	139.9	139.9	139.9
47.5°	120.9	120.3	120.3	120.3	120.3
50°	105.2	104.6	104.6	104.6	104.6
52.5°	92.3	91.7	91.7	91.7	91.2
55°	80.6	80.6	80.0	80.6	80.0
57.5°	69.9	69.9	69.9	69.9	69.9
60°	62.7	62.1	62.1	62.1	62.1
62.5°	56.0	56.0	56.0	56.0	56.0
65°	49.7	49.7	49.7	49.7	49.7
67.5°	43.6	43.0	43.6	43.6	43.0
70°	37.4	36.9	37.4	37.4	37.4
72.5°	31.3	31.3	31.3	31.9	31.3
75°	25.7	26.3	26.3	26.3	25.7
77.5°	20.7	21.3	20.7	20.7	20.7
80°	16.3	15.7	15.7	15.7	16.3
82.5°	11.2	11.2	11.2	11.2	11.2
85°	6.7	6.7	6.7	6.7	6.7
87.5°	2.8	2.8	2.8	2.8	2.8
90°	0.0	0.0	0.0	0.0	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° - - 45°-225° - - - - 90°-270°

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)