

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: P592614

Luminaire Tested: **HCC4S10D010MB-HM40525950-41WDW**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P592614
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: HCC4S10D010MB-HM40525950-41WDW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

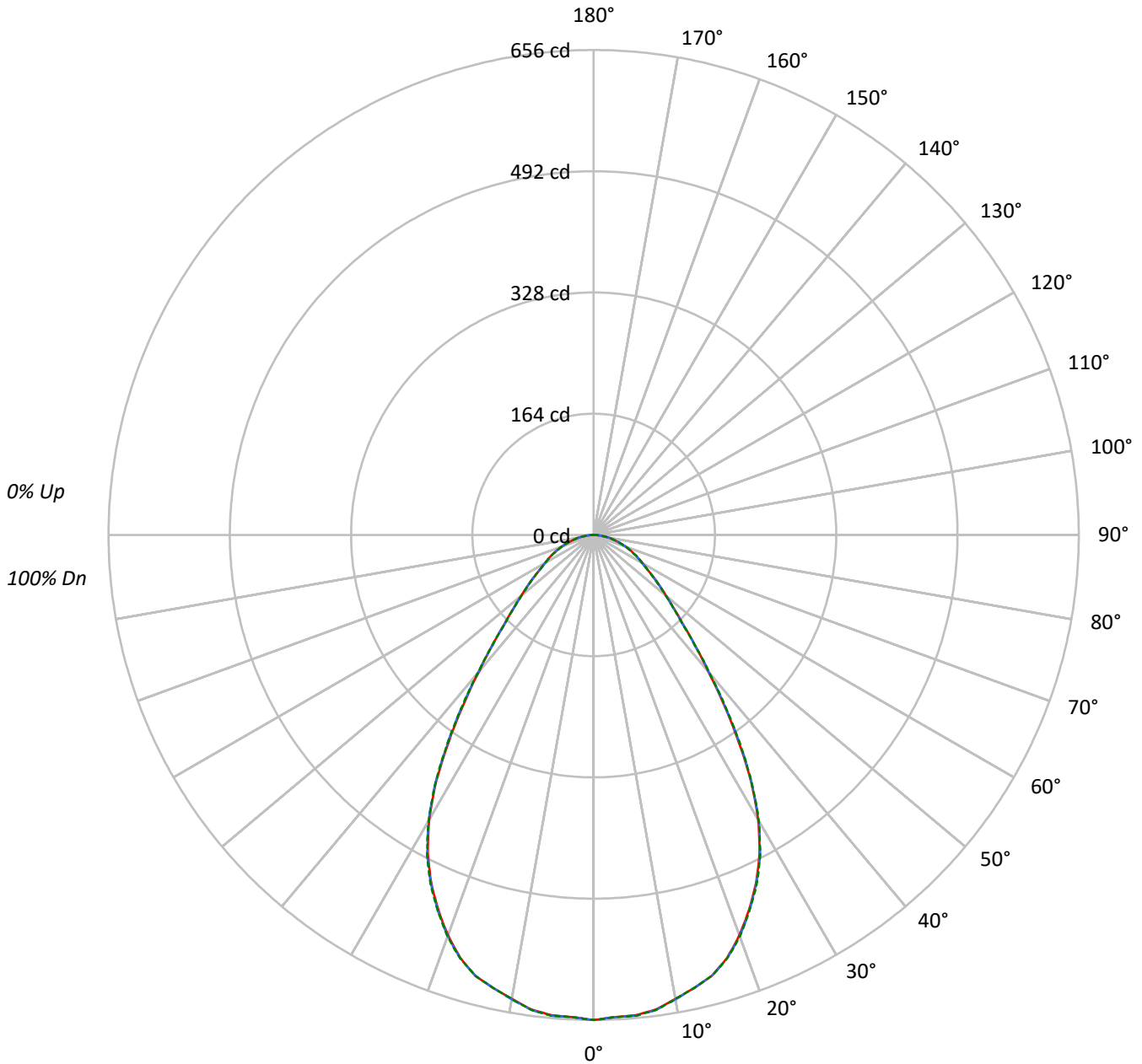
Lumens per Lamp: N/A
Luminaire Lumens: 1012.4 lumens
Efficiency: N/A
Efficacy: 102.3 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.07 / 1.04
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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: P592614
CATALOG NUMBER: HCC4S10D010MB-HM40525950-41WDW

Luminous Intensity Polar Plot



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



TEST NUMBER: P592614

CATALOG NUMBER: HCC4S10D010MB-HM40525950-41WDW

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	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	94	92	90	89				
2	103	97	91	87	101	95	90	86	91	87	84	88	85	82	85	83	80	78				
3	96	87	81	76	94	86	80	75	83	78	74	81	76	72	78	74	71	69				
4	90	80	72	67	87	78	72	66	76	70	66	74	69	65	72	68	64	62				
5	84	73	65	60	82	72	65	59	70	64	59	68	63	58	66	62	58	56				
6	78	67	59	54	77	66	59	54	64	58	53	63	57	53	61	56	53	51				
7	73	62	54	49	72	61	54	49	60	53	49	58	53	48	57	52	48	46				
8	69	57	50	45	68	57	50	45	55	49	45	54	49	44	53	48	44	42				
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	45	41	39				
10	61	50	43	38	60	49	43	38	48	42	38	48	42	38	47	42	38	36				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	80939	80939	80939
5°	80741	80828	80828
10°	79808	79883	79808
15°	78853	78853	78853
20°	75620	75790	75882
25°	70716	70811	71002
30°	63380	63565	63565
35°	51437	51859	51949
40°	38821	39046	39159
45°	29742	29619	29619
50°	24505	24370	24370
55°	21053	20903	20903
60°	18773	18601	18601
65°	17628	17628	17628
70°	16409	16409	16409
75°	14917	15250	14917
80°	13993	13496	13993
85°	11605	11605	11605



TEST NUMBER: P592614
 CATALOG NUMBER: HCC4S10D010MB-HM40525950-41WDW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.8	6.1
10°-20°	173.0	17.1
20°-30°	237.7	23.5
30°-40°	213.8	21.1
40°-50°	135.1	13.3
50°-60°	88.2	8.7
60°-70°	59.7	5.9
70°-80°	33.6	3.3
80°-90°	9.4	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°	472.6	46.7
0°-40°	686.3	67.8
0°-60°	909.6	89.8
0°-90°	1012.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1012.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	656	656	656	656	656	
5°	652	652	653	653	653	62
15°	618	618	618	618	618	173
25°	520	520	520	522	522	237
35°	342	343	344	346	345	213
45°	170	170	170	170	170	135
55°	98	98	97	98	97	89
65°	60	60	60	60	60	60
75°	31	32	32	32	31	33
85°	8	8	8	8	8	10
90°	0	0	0	0	0	



TEST NUMBER: P592614

CATALOG NUMBER: HCC4S10D010MB-HM40525950-41WDW

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	656.2	656.2	656.2	656.2	656.2
2.5°	652.8	652.8	652.8	652.8	652.8
5°	652.1	652.1	652.8	652.8	652.8
7.5°	647.3	648.0	648.0	648.0	648.0
10°	637.2	637.2	637.8	637.8	637.2
12.5°	627.6	627.6	627.6	628.3	627.6
15°	617.5	617.5	617.5	617.5	617.5
17.5°	599.8	600.4	600.4	600.4	600.4
20°	576.1	577.4	577.4	578.1	578.1
22.5°	548.9	549.5	550.2	550.9	550.2
25°	519.6	520.3	520.3	521.7	521.7
27.5°	485.7	486.4	487.7	487.7	487.7
30°	445.0	445.6	446.3	446.3	446.3
32.5°	396.7	396.7	398.1	398.8	398.1
35°	341.6	343.0	344.4	345.7	345.0
37.5°	289.4	290.8	291.4	291.4	292.1
40°	241.1	242.5	242.5	243.9	243.2
42.5°	203.1	202.5	202.5	203.8	203.1
45°	170.5	169.8	169.8	169.8	169.8
47.5°	146.7	146.0	146.0	146.0	146.0
50°	127.7	127.0	127.0	127.0	127.0
52.5°	112.1	111.4	111.4	111.4	110.7
55°	97.9	97.9	97.2	97.9	97.2
57.5°	84.9	84.9	84.9	84.9	84.9
60°	76.1	75.4	75.4	75.4	75.4
62.5°	67.9	67.9	67.9	67.9	67.9
65°	60.4	60.4	60.4	60.4	60.4
67.5°	53.0	52.3	53.0	53.0	52.3
70°	45.5	44.8	45.5	45.5	45.5
72.5°	38.0	38.0	38.0	38.7	38.0
75°	31.3	32.0	32.0	32.0	31.3
77.5°	25.1	25.8	25.1	25.1	25.1
80°	19.7	19.0	19.0	19.0	19.7
82.5°	13.5	13.5	13.5	13.5	13.5
85°	8.2	8.2	8.2	8.2	8.2
87.5°	3.4	3.4	3.4	3.4	3.4
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)