

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: P592650

Luminaire Tested: **HCC4S15D010BZ-HM40525950-41WDW**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P592650
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: HCC4S15D010BZ-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

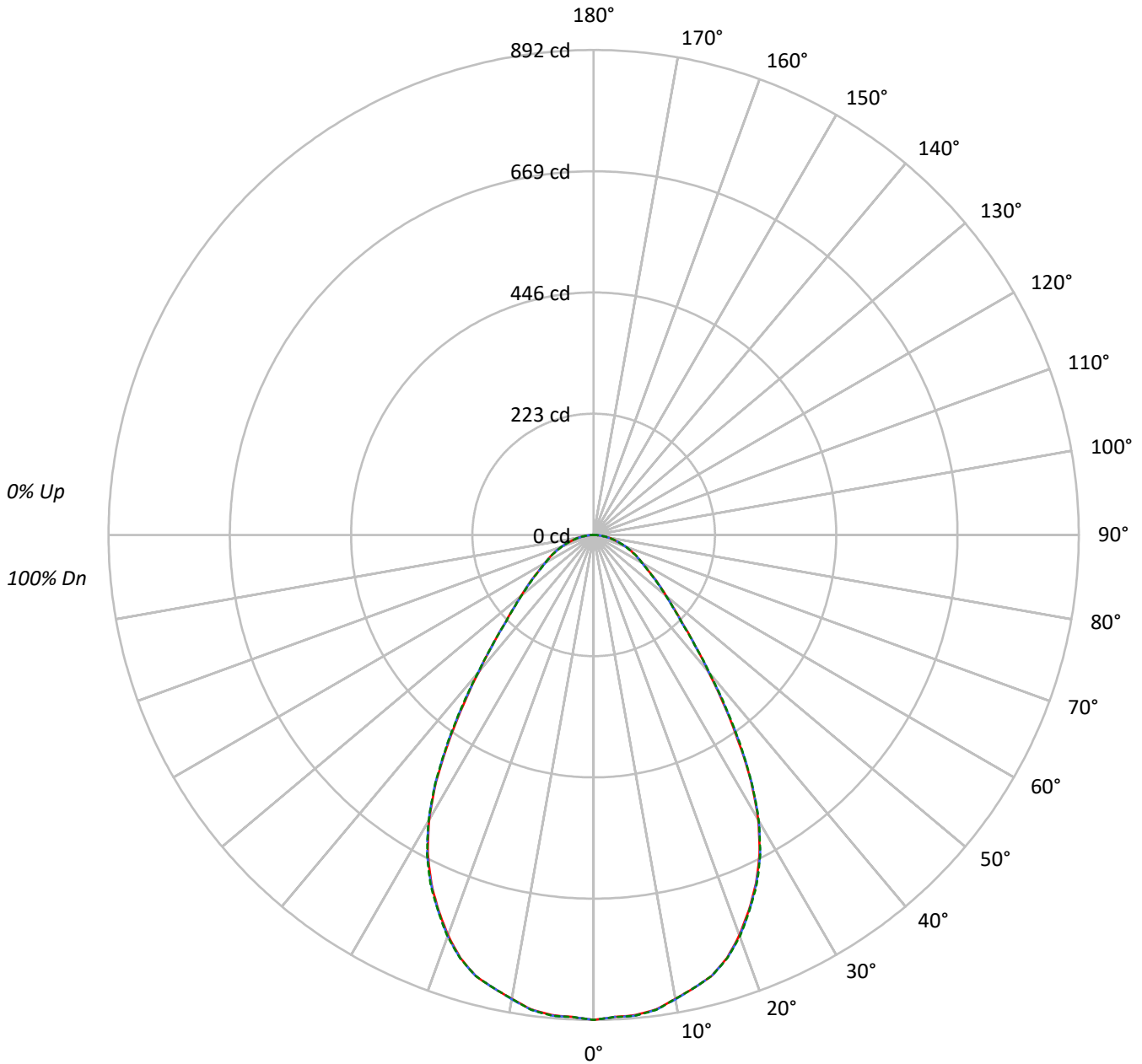
Lumens per Lamp: N/A
Luminaire Lumens: 1376.4 lumens
Efficiency: N/A
Efficacy: 98.3 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.07 / 1.04
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 14
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: P592650
CATALOG NUMBER: HCC4S15D010BZ-HM40525950-41WDW

Luminous Intensity Polar Plot



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



TEST NUMBER: P592650

CATALOG NUMBER: HCC4S15D010BZ-HM40525950-41WDW

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	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°	110037	110037	110037
5°	109776	109887	109887
10°	108503	108615	108503
15°	107189	107189	107189
20°	102804	103040	103159
25°	96152	96275	96533
30°	86154	86425	86425
35°	69958	70500	70636
40°	52797	53087	53232
45°	40435	40278	40278
50°	33312	33140	33140
55°	28601	28408	28408
60°	25533	25311	25311
65°	23991	23991	23991
70°	22324	22324	22324
75°	20254	20683	20254
80°	19037	18326	19037
85°	15568	15568	15568



TEST NUMBER: P592650
 CATALOG NUMBER: HCC4S15D010BZ-HM40525950-41WDW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.1	6.1
10°-20°	235.2	17.1
20°-30°	323.2	23.5
30°-40°	290.6	21.1
40°-50°	183.6	13.3
50°-60°	119.9	8.7
60°-70°	81.2	5.9
70°-80°	45.7	3.3
80°-90°	12.8	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°	642.5	46.7
0°-40°	933.1	67.8
0°-60°	1236.7	89.8
0°-90°	1376.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1376.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	892	892	892	892	892	
5°	887	887	888	888	888	84
15°	839	839	839	839	839	235
25°	706	707	707	709	709	322
35°	465	466	468	470	469	289
45°	232	231	231	231	231	184
55°	133	133	132	133	132	120
65°	82	82	82	82	82	81
75°	42	43	43	43	42	46
85°	11	11	11	11	11	13
90°	0	0	0	0	0	

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



TEST NUMBER: P592650

CATALOG NUMBER: HCC4S15D010BZ-HM40525950-41WDW

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	892.1	892.1	892.1	892.1	892.1
2.5°	887.5	887.5	887.5	887.5	887.5
5°	886.6	886.6	887.5	887.5	887.5
7.5°	880.2	881.1	881.1	881.1	881.1
10°	866.3	866.3	867.2	867.2	866.3
12.5°	853.3	853.3	853.3	854.2	853.3
15°	839.4	839.4	839.4	839.4	839.4
17.5°	815.5	816.4	816.4	816.4	816.4
20°	783.2	785.0	785.0	785.9	785.9
22.5°	746.2	747.1	748.0	748.9	748.0
25°	706.5	707.4	707.4	709.3	709.3
27.5°	660.4	661.3	663.1	663.1	663.1
30°	604.9	605.8	606.8	606.8	606.8
32.5°	539.4	539.4	541.2	542.1	541.2
35°	464.6	466.4	468.2	470.0	469.1
37.5°	393.4	395.2	396.2	396.2	397.2
40°	327.9	329.7	329.7	331.5	330.6
42.5°	276.2	275.3	275.3	277.1	276.2
45°	231.8	230.9	230.9	230.9	230.9
47.5°	199.4	198.5	198.5	198.5	198.5
50°	173.6	172.7	172.7	172.7	172.7
52.5°	152.4	151.4	151.4	151.4	150.5
55°	133.0	133.0	132.1	133.0	132.1
57.5°	115.4	115.4	115.4	115.4	115.4
60°	103.5	102.6	102.6	102.6	102.6
62.5°	92.3	92.3	92.3	92.3	92.3
65°	82.2	82.2	82.2	82.2	82.2
67.5°	72.1	71.1	72.1	72.1	71.1
70°	61.9	60.9	61.9	61.9	61.9
72.5°	51.7	51.7	51.7	52.6	51.7
75°	42.5	43.4	43.4	43.4	42.5
77.5°	34.2	35.1	34.2	34.2	34.2
80°	26.8	25.8	25.8	25.8	26.8
82.5°	18.4	18.4	18.4	18.4	18.4
85°	11.0	11.0	11.0	11.0	11.0
87.5°	4.7	4.7	4.7	4.7	4.7
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)