

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: P592678

Luminaire Tested: **HCC4S20D010BZ-HM40525950-41WDH**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P592678
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: HCC4S20D010BZ-HM40525950-41WDH
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

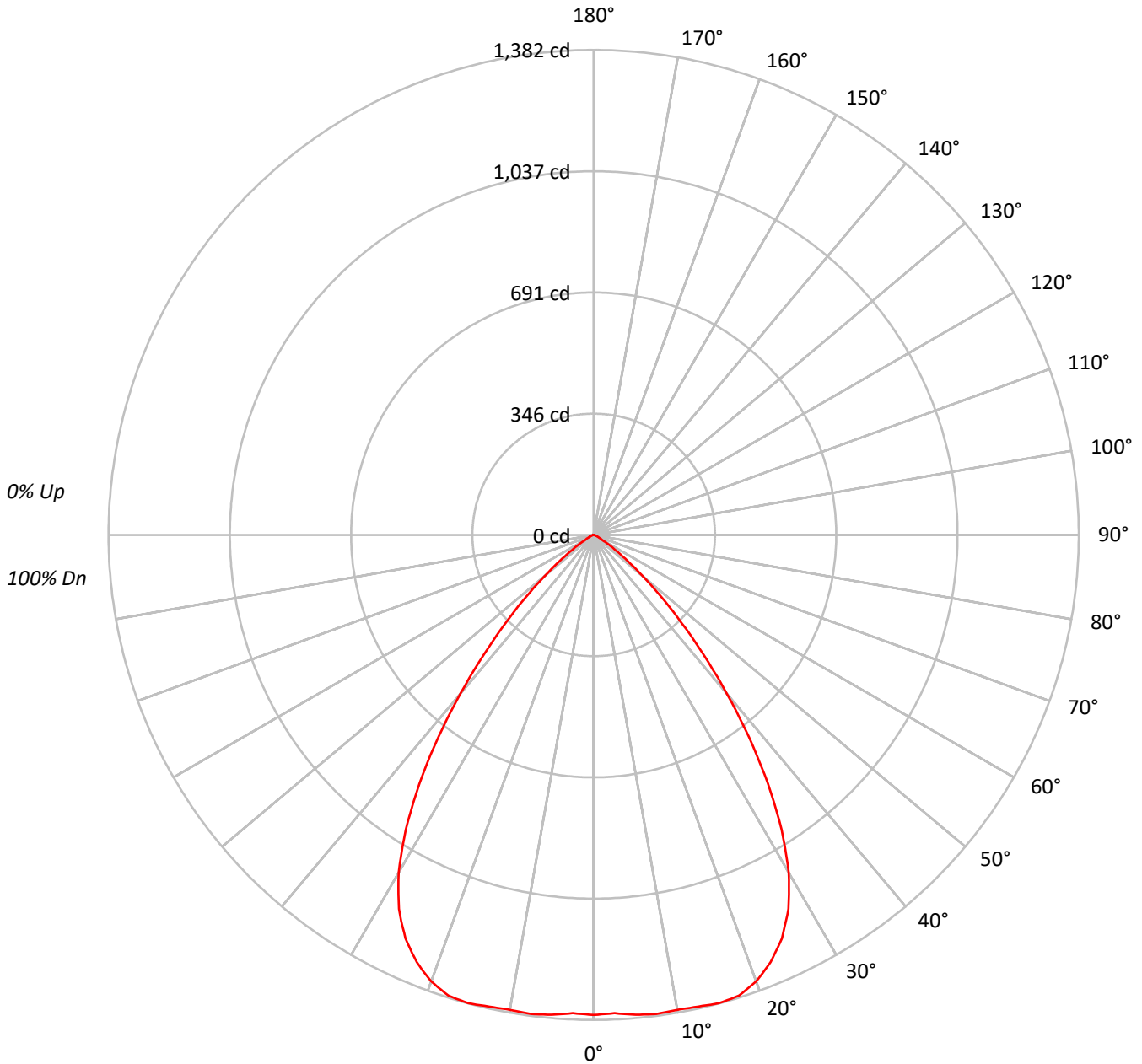
Lumens per Lamp: N/A
Luminaire Lumens: 2006.6 lumens
Efficiency: N/A
Efficacy: 100.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.1
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 20
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: P592678
CATALOG NUMBER: HCC4S20D010BZ-HM40525950-41WDH

Luminous Intensity Polar Plot





TEST NUMBER: P592678

CATALOG NUMBER: HCC4S20D010BZ-HM40525950-41WDH

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°	168712
5°	169976
10°	172091
15°	176426
20°	177715
25°	172639
30°	158279
35°	130249
40°	94935
45°	61629
50°	34732
55°	16494
60°	6513
65°	4057
70°	2741
75°	1811
80°	923
85°	1840



TEST NUMBER: P592678
 CATALOG NUMBER: HCC4S20D010BZ-HM40525950-41WDH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.1	6.5
10°-20°	389.5	19.4
20°-30°	577.7	28.8
30°-40°	533.6	26.6
40°-50°	278.6	13.9
50°-60°	76.4	3.8
60°-70°	14.7	0.7
70°-80°	4.1	0.2
80°-90°	0.9	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°	1098.3	54.7
0°-40°	1631.9	81.3
0°-60°	1986.9	99.0
0°-90°	2006.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2006.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1368	
5°	1373	131
15°	1382	389
25°	1268	578
35°	865	534
45°	353	279
55°	77	76
65°	14	15
75°	4	4
85°	1	1
90°	0	



TEST NUMBER: P592678
CATALOG NUMBER: HCC4S20D010BZ-HM40525950-41WDH

CANDELA DISTRIBUTION (FULL):

	0°
0°	1367.8
2.5°	1364.0
5°	1372.8
7.5°	1376.5
10°	1374.0
12.5°	1376.5
15°	1381.6
17.5°	1376.5
20°	1353.9
22.5°	1317.4
25°	1268.5
27.5°	1201.8
30°	1111.3
32.5°	996.9
35°	865.0
37.5°	726.6
40°	589.6
42.5°	463.8
45°	353.3
47.5°	259.0
50°	181.0
52.5°	120.7
55°	76.7
57.5°	45.3
60°	26.4
62.5°	18.8
65°	13.9
67.5°	10.1
70°	7.6
72.5°	5.0
75°	3.8
77.5°	2.5
80°	1.3
82.5°	1.3
85°	1.3
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)