

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: P579999

Luminaire Tested: **HCC4S20D010BZ-HM40525830-41MDW**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P579999
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-6)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC4S20D010BZ-HM40525830-41MDW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" MEDIUM DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

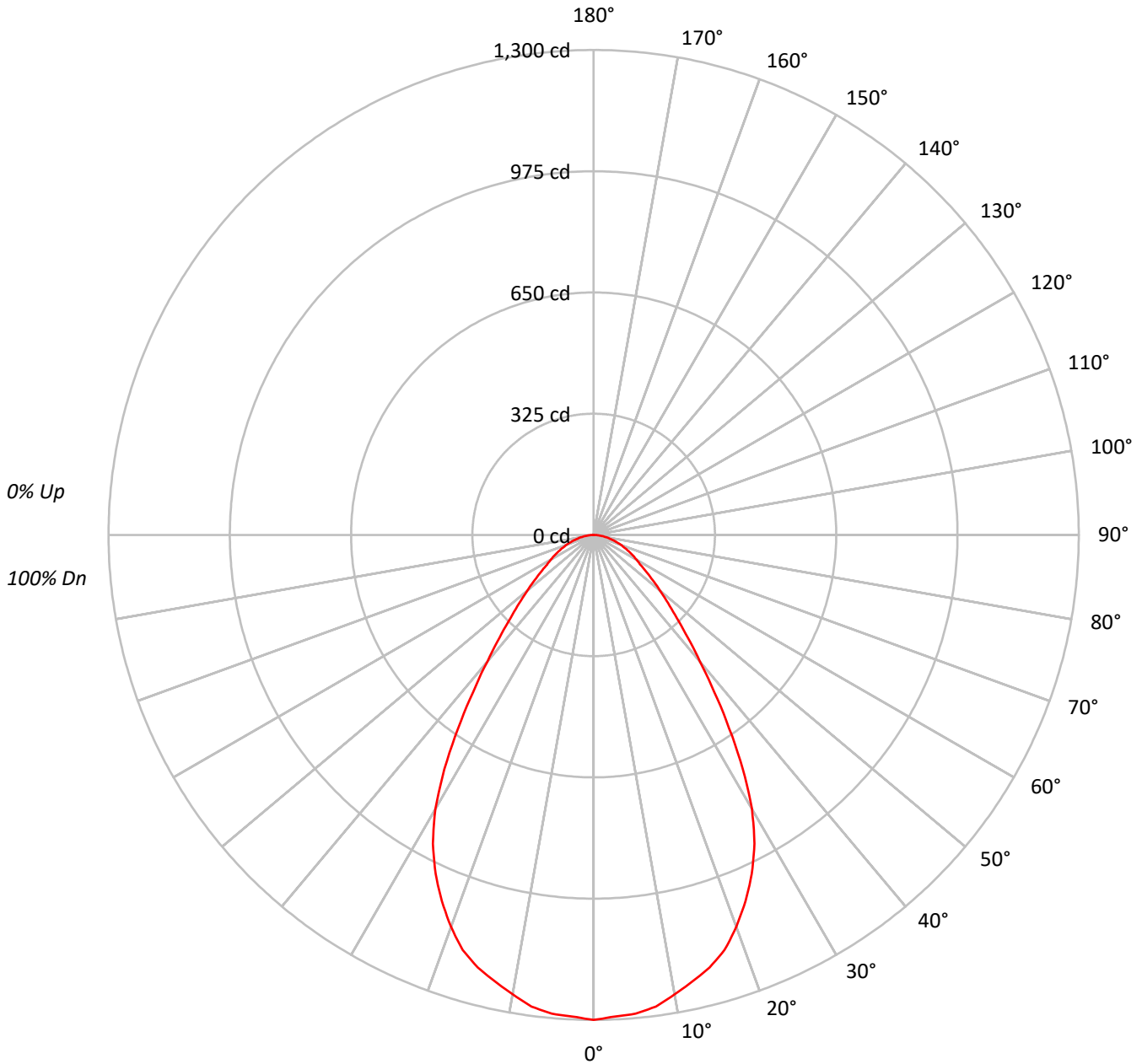
Lumens per Lamp: N/A
Luminaire Lumens: 1891.5 lumens
Efficiency: N/A
Efficacy: 94.6 lumens/watt
Spacing Criteria (0/90/45): 1.04 / 1.04 / 1.01
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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: P579999
CATALOG NUMBER: HCC4S20D010BZ-HM40525830-41MDW

Luminous Intensity Polar Plot





TEST NUMBER: P579999

CATALOG NUMBER: HCC4S20D010BZ-HM40525830-41MDW

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
1	111	108	104	101	109	105	102	100	101	99	97	97	95	94	94	92	91	89			89
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79			79
3	97	88	82	76	94	87	81	76	84	79	75	81	77	73	79	75	72	70			70
4	90	80	73	68	88	79	73	67	77	71	67	75	70	66	73	68	65	63			63
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	63	59	57			57
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	54	52			52
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47			47
8	70	58	51	46	68	58	51	46	56	50	46	55	50	45	54	49	45	44			44
9	66	54	47	42	65	54	47	42	53	46	42	52	46	42	51	46	42	40			40
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37			37

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	160362
5°	159513
10°	156598
15°	153300
20°	146751
25°	136451
30°	120778
35°	95315
40°	71330
45°	54860
50°	44500
55°	36923
60°	32662
65°	30237
70°	27877
75°	25592
80°	23298
85°	18540



TEST NUMBER: P579999
 CATALOG NUMBER: HCC4S20D010BZ-HM40525830-41MDW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.8	6.4
10°-20°	336.7	17.8
20°-30°	457.1	24.2
30°-40°	396.0	20.9
40°-50°	248.6	13.1
50°-60°	156.4	8.3
60°-70°	102.7	5.4
70°-80°	56.7	3.0
80°-90°	15.5	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°	915.6	48.4
0°-40°	1311.6	69.3
0°-60°	1716.6	90.8
0°-90°	1891.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1891.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1300	
5°	1288	122
15°	1200	337
25°	1003	457
35°	633	396
45°	314	249
55°	172	156
65°	104	103
75°	54	57
85°	13	16
90°	0	



TEST NUMBER: P579999

CATALOG NUMBER: HCC4S20D010BZ-HM40525830-41MDW

CANDELA DISTRIBUTION (FULL):

	0°
0°	1300.1
2.5°	1292.2
5°	1288.3
7.5°	1275.2
10°	1250.3
12.5°	1225.5
15°	1200.5
17.5°	1166.4
20°	1118.0
22.5°	1062.9
25°	1002.6
27.5°	933.1
30°	848.0
32.5°	744.4
35°	633.0
37.5°	530.8
40°	443.0
42.5°	373.5
45°	314.5
47.5°	270.0
50°	231.9
52.5°	199.2
55°	171.7
57.5°	148.1
60°	132.4
62.5°	117.9
65°	103.6
67.5°	89.1
70°	77.3
72.5°	64.2
75°	53.7
77.5°	42.0
80°	32.8
82.5°	22.3
85°	13.1
87.5°	5.3
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)