

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: P579976

Luminaire Tested: **HCC4W20D010BZ-HM40525827-41WDH**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P579976
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: HCC4W20D010BZ-HM40525827-41WDH
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

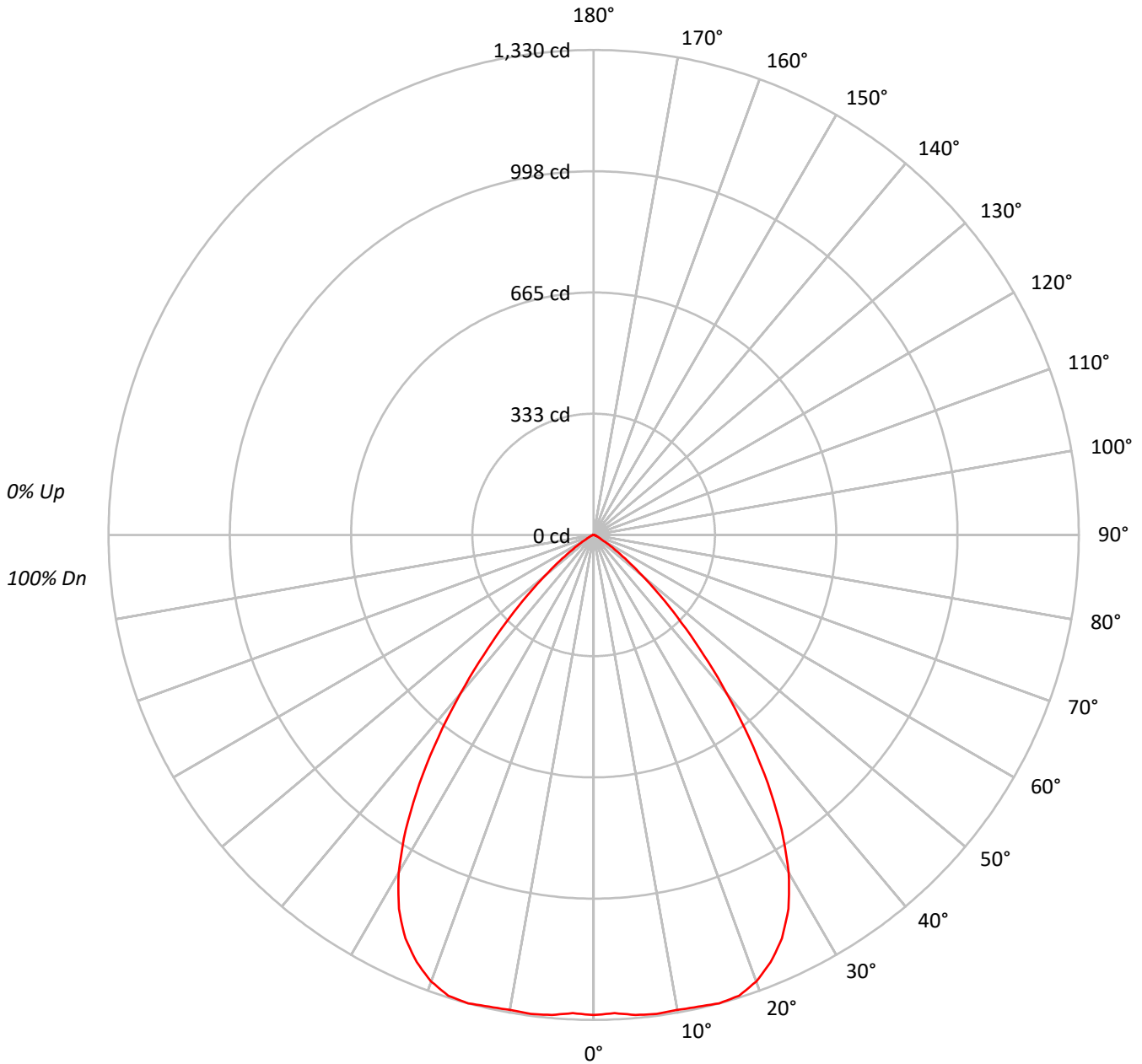
Lumens per Lamp: N/A
Luminaire Lumens: 1931.5 lumens
Efficiency: N/A
Efficacy: 96.6 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.11
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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: P579976
CATALOG NUMBER: HCC4W20D010BZ-HM40525827-41WDH

Luminous Intensity Polar Plot



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



TEST NUMBER: P579976

CATALOG NUMBER: HCC4W20D010BZ-HM40525827-41WDH

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°	162385
5°	163599
10°	165654
15°	169811
20°	171060
25°	166174
30°	152354
35°	125356
40°	91377
45°	59309
50°	33428
55°	15892
60°	6291
65°	3882
70°	2597
75°	1763
80°	923
85°	1840



TEST NUMBER: P579976
 CATALOG NUMBER: HCC4W20D010BZ-HM40525827-41WDH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.2	6.5
10°-20°	374.9	19.4
20°-30°	556.1	28.8
30°-40°	513.6	26.6
40°-50°	268.2	13.9
50°-60°	73.5	3.8
60°-70°	14.1	0.7
70°-80°	4.0	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°	1057.1	54.7
0°-40°	1570.8	81.3
0°-60°	1912.5	99.0
0°-90°	1931.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1931.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1316	
5°	1321	126
15°	1330	375
25°	1221	556
35°	832	514
45°	340	268
55°	74	74
65°	13	14
75°	4	4
85°	1	1
90°	0	



TEST NUMBER: P579976
CATALOG NUMBER: HCC4W20D010BZ-HM40525827-41WDH

CANDELA DISTRIBUTION (FULL):

	0°
0°	1316.5
2.5°	1312.9
5°	1321.3
7.5°	1325.0
10°	1322.6
12.5°	1325.0
15°	1329.8
17.5°	1325.0
20°	1303.2
22.5°	1268.1
25°	1221.0
27.5°	1156.7
30°	1069.7
32.5°	959.6
35°	832.5
37.5°	699.4
40°	567.5
42.5°	446.5
45°	340.0
47.5°	249.2
50°	174.2
52.5°	116.2
55°	73.9
57.5°	43.6
60°	25.5
62.5°	18.1
65°	13.3
67.5°	9.6
70°	7.2
72.5°	4.8
75°	3.7
77.5°	2.4
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)