

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: P579991

Luminaire Tested: **HCC4W20D010MB-HM40525830-41WDWB**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P579991
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-10)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC4W20D010MB-HM40525830-41WDWB
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

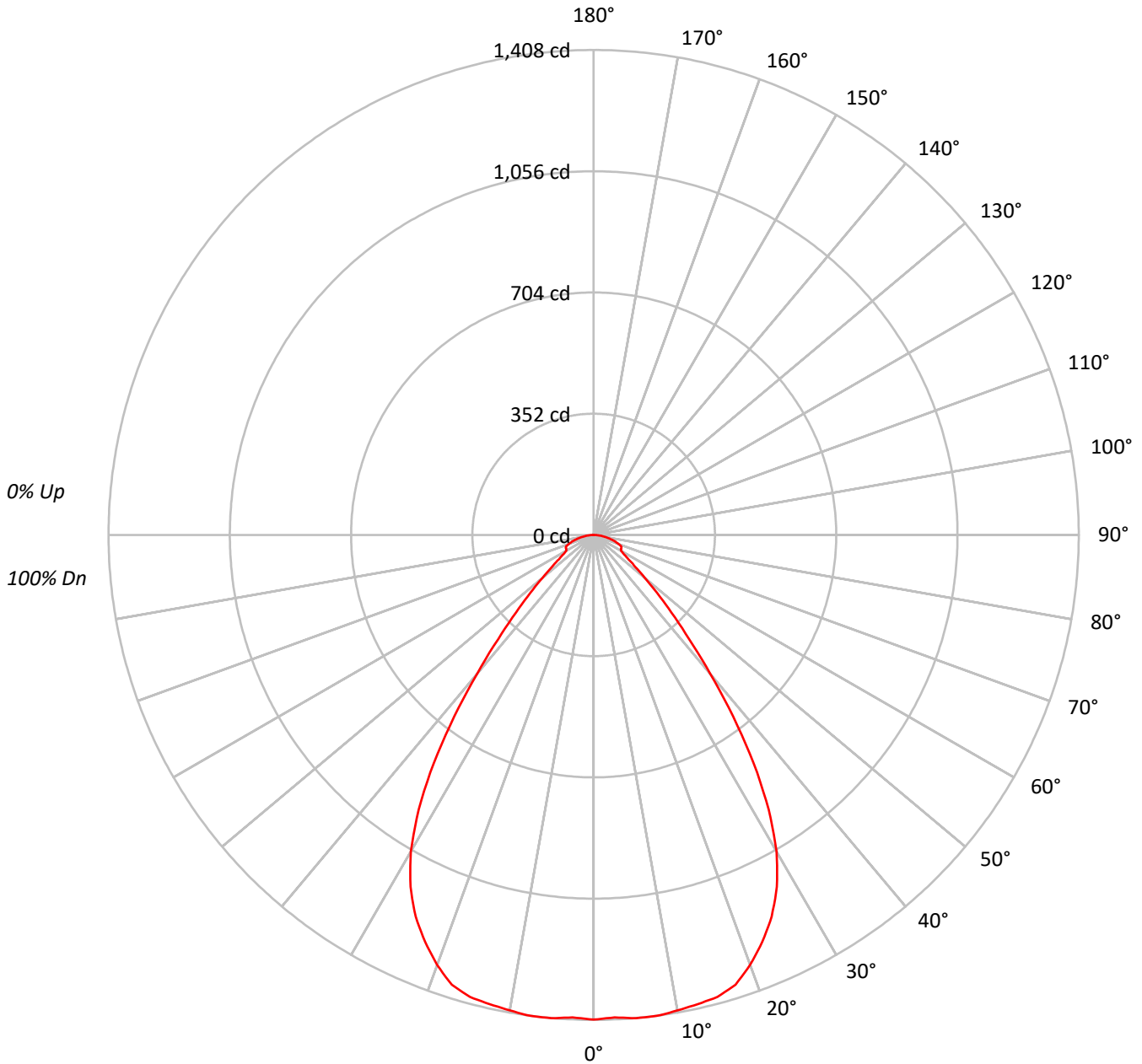
Lumens per Lamp: N/A
Luminaire Lumens: 2114.3 lumens
Efficiency: N/A
Efficacy: 105.7 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.14 / 1.07
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 20
Input Voltage (V): NR
Input Current (Ain): 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: P579991
CATALOG NUMBER: HCC4W20D010MB-HM40525830-41WDWB

Luminous Intensity Polar Plot





TEST NUMBER: P579991
 CATALOG NUMBER: HCC4W20D010MB-HM40525830-41WDWB

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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90		
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	80		
3	98	89	83	78	95	88	82	78	85	80	76	83	78	75	80	77	74	72		
4	91	82	75	70	89	81	74	69	78	73	69	76	72	68	74	70	67	65		
5	86	75	68	63	84	74	68	63	72	67	62	71	65	61	69	64	61	59		
6	80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	59	56	54		
7	76	64	57	52	74	64	57	52	62	56	52	61	56	51	60	55	51	49		
8	71	60	53	48	70	59	53	48	58	52	48	57	51	47	56	51	47	46		
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42		
10	64	52	46	41	62	52	45	41	51	45	41	50	45	41	49	44	41	39		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	173560
5°	174396
10°	175586
15°	177345
20°	174394
25°	166378
30°	151158
35°	121922
40°	84598
45°	55541
50°	37227
55°	26494
60°	22646
65°	26005
70°	27877
75°	26831
80°	24222
85°	22219



TEST NUMBER: P579991
 CATALOG NUMBER: HCC4W20D010MB-HM40525830-41WDWB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.2	6.3
10°-20°	390.1	18.5
20°-30°	557.4	26.4
30°-40°	497.9	23.6
40°-50°	255.4	12.1
50°-60°	116.1	5.5
60°-70°	86.6	4.1
70°-80°	58.9	2.8
80°-90°	17.5	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°	1081.8	51.2
0°-40°	1579.7	74.7
0°-60°	1951.3	92.3
0°-90°	2114.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2114.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1407	
5°	1408	134
15°	1389	390
25°	1222	557
35°	810	498
45°	318	255
55°	123	116
65°	89	87
75°	56	59
85°	16	17
90°	0	



TEST NUMBER: P579991
CATALOG NUMBER: HCC4W20D010MB-HM40525830-41WDWB

CANDELA DISTRIBUTION (FULL):

	0°
0°	1407.1
2.5°	1401.9
5°	1408.5
7.5°	1408.5
10°	1401.9
12.5°	1395.3
15°	1388.8
17.5°	1369.2
20°	1328.6
22.5°	1278.8
25°	1222.5
27.5°	1151.7
30°	1061.3
32.5°	945.9
35°	809.7
37.5°	664.2
40°	525.4
42.5°	410.1
45°	318.4
47.5°	248.9
50°	194.0
52.5°	152.0
55°	123.2
57.5°	103.5
60°	91.8
62.5°	89.1
65°	89.1
67.5°	86.5
70°	77.3
72.5°	66.9
75°	56.3
77.5°	44.5
80°	34.1
82.5°	24.9
85°	15.7
87.5°	6.5
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)