

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: P579836

Luminaire Tested: **HCC4W15D010MW-HM40525827-41WDC**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P579836  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-7)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/9/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC4W15D010MW-HM40525827-41WDC  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, SPECULAR TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

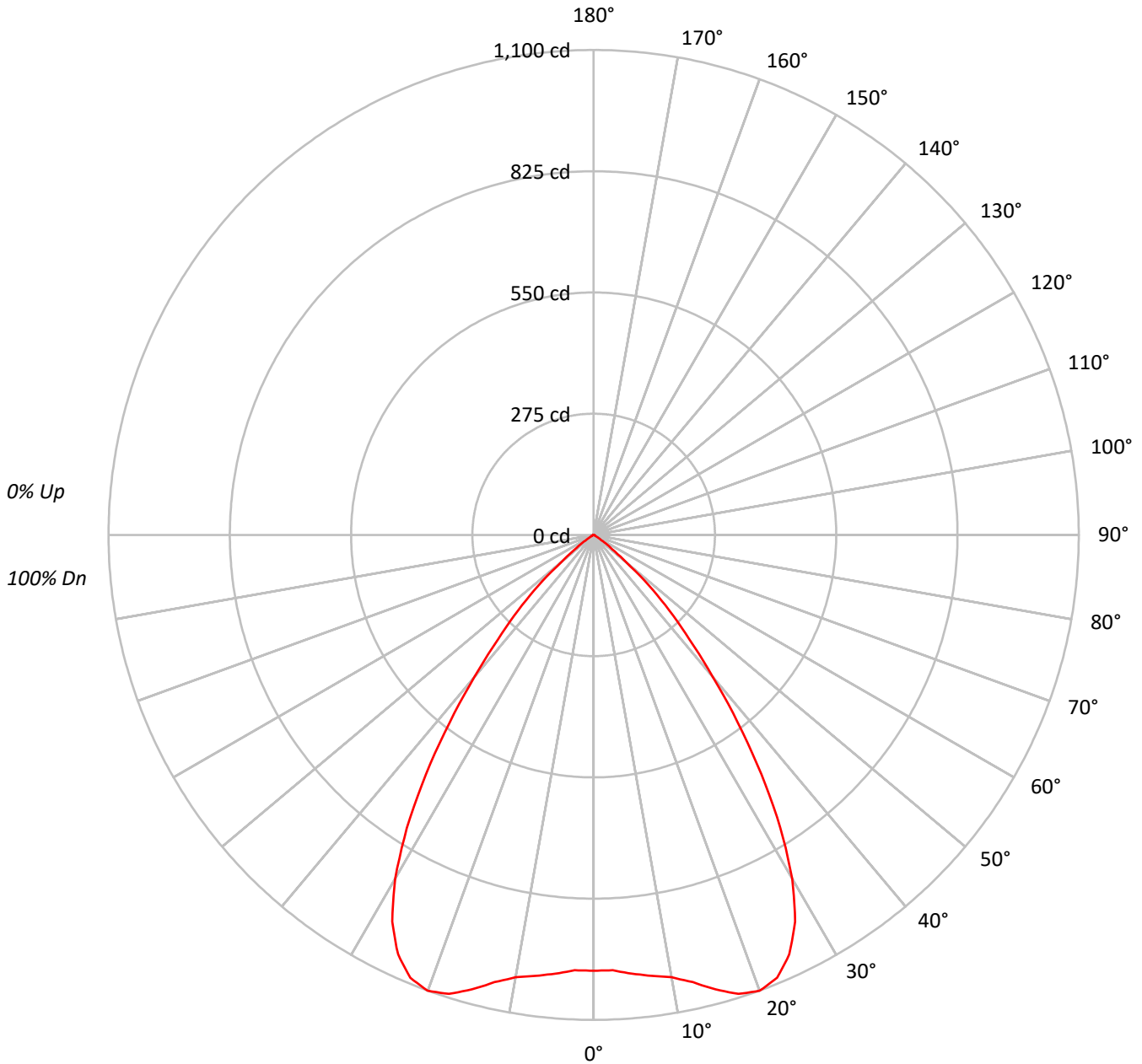
Lumens per Lamp: N/A  
Luminaire Lumens: 1509.0 lumens  
Efficiency: N/A  
Efficacy: 107.8 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.11  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 14  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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: P579836  
CATALOG NUMBER: HCC4W15D010MW-HM40525827-41WDC

### Luminous Intensity Polar Plot





TEST NUMBER: P579836  
 CATALOG NUMBER: HCC4W15D010MW-HM40525827-41WDC

**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	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	113	110	107	105	110	108	105	103	104	102	100		100	98	97		97	95	94	92
2	107	101	97	93	104	100	96	92	96	93	90		93	91	88		91	88	86	85
3	101	93	88	84	98	92	87	83	89	85	82		87	83	80		85	82	79	77
4	95	86	80	76	93	85	79	75	83	78	74		81	77	73		79	75	72	71
5	89	80	73	69	87	79	73	68	77	72	68		75	71	67		74	70	66	65
6	84	74	67	63	82	73	67	62	72	66	62		70	65	62		69	65	61	60
7	79	69	62	57	78	68	62	57	67	61	57		65	60	57		64	60	56	55
8	75	64	57	53	73	63	57	53	62	57	53		61	56	52		60	56	52	51
9	70	60	53	49	69	59	53	49	58	53	49		57	52	48		56	52	48	47
10	67	56	50	45	66	55	49	45	55	49	45		54	49	45		53	48	45	43

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	121902
5°	123693
10°	127566
15°	136304
20°	144440
25°	142861
30°	128213
35°	99803
40°	67611
45°	42214
50°	18268
55°	6107
60°	1554
65°	1022
70°	649
75°	429
80°	639
85°	0



TEST NUMBER: P579836  
 CATALOG NUMBER: HCC4W15D010MW-HM40525827-41WDC

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	96.0	6.4
10°-20°	303.0	20.1
20°-30°	474.8	31.5
30°-40°	409.8	27.2
40°-50°	188.4	12.5
50°-60°	32.0	2.1
60°-70°	3.6	0.2
70°-80°	1.3	0.1
80°-90°	0.1	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°	873.8	57.9
0°-40°	1283.6	85.1
0°-60°	1504.0	99.7
0°-90°	1509.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1509.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	988	
5°	999	96
15°	1067	303
25°	1050	475
35°	663	410
45°	242	188
55°	28	32
65°	4	4
75°	1	1
85°	0	0
90°	0	



TEST NUMBER: P579836  
CATALOG NUMBER: HCC4W15D010MW-HM40525827-41WDC

**CANDELA DISTRIBUTION (FULL):**

0°	
0°	988.3
2.5°	988.3
5°	999.0
7.5°	1008.7
10°	1018.5
12.5°	1039.0
15°	1067.4
17.5°	1091.5
20°	1100.4
22.5°	1087.0
25°	1049.7
27.5°	989.2
30°	900.2
32.5°	788.2
35°	662.8
37.5°	536.4
40°	419.9
42.5°	321.1
45°	242.0
47.5°	169.9
50°	95.2
52.5°	52.5
55°	28.4
57.5°	14.2
60°	6.3
62.5°	4.4
65°	3.5
67.5°	2.6
70°	1.8
72.5°	1.8
75°	0.9
77.5°	0.9
80°	0.9
82.5°	0.0
85°	0.0
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)