

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: P579694

Luminaire Tested: **HCC4W10D010SL-HM40525827-41NDW**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P579694  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-3)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/9/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC4W10D010SL-HM40525827-41NDW  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" NARROW DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

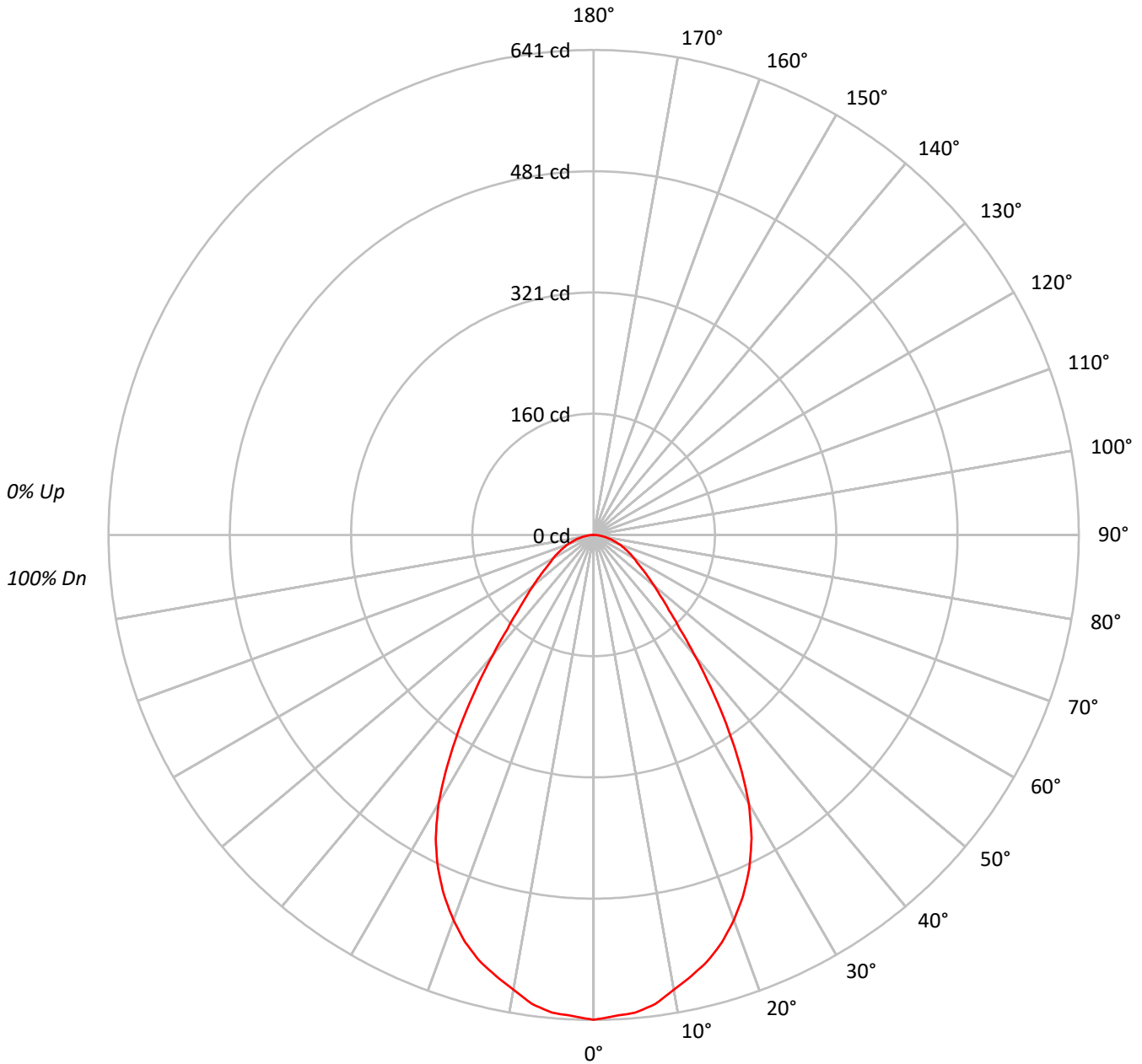
Lumens per Lamp: N/A  
Luminaire Lumens: 899.9 lumens  
Efficiency: N/A  
Efficacy: 90.9 lumens/watt  
Spacing Criteria (0/90/45): 1.03 / 1.03 / 1.01  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 9.9  
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: P579694  
CATALOG NUMBER: HCC4W10D010SL-HM40525827-41NDW

### Luminous Intensity Polar Plot





TEST NUMBER: P579694

CATALOG NUMBER: HCC4W10D010SL-HM40525827-41NDW

**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	98	96	94	94	92	91	89			89
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79			79
3	97	88	82	77	95	87	81	76	84	79	75	82	77	74	79	76	73	71			71
4	90	81	74	68	88	80	73	68	77	72	67	75	70	66	73	69	65	64			64
5	85	74	67	61	83	73	66	61	71	65	60	69	64	60	68	63	59	58			58
6	79	68	61	56	78	67	60	55	66	60	55	64	59	55	63	58	54	52			52
7	75	63	56	51	73	62	56	51	61	55	50	60	54	50	59	53	50	48			48
8	70	59	52	47	69	58	51	46	57	51	46	56	50	46	55	50	46	44			44
9	66	55	48	43	65	54	47	43	53	47	43	52	47	43	51	46	42	41			41
10	63	51	44	40	62	51	44	40	50	44	40	49	43	39	48	43	39	38			38

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

	0°
0°	79052
5°	78475
10°	76427
15°	74422
20°	71091
25°	66225
30°	58324
35°	45986
40°	33379
45°	24543
50°	19957
55°	16731
60°	15172
65°	13951
70°	12983
75°	11819
80°	10655
85°	9199



TEST NUMBER: P579694  
 CATALOG NUMBER: HCC4W10D010SL-HM40525827-41NDW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	59.8	6.6
10°-20°	163.5	18.2
20°-30°	221.6	24.6
30°-40°	190.1	21.1
40°-50°	112.3	12.5
50°-60°	71.1	7.9
60°-70°	47.8	5.3
70°-80°	26.3	2.9
80°-90°	7.4	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°	444.8	49.4
0°-40°	634.9	70.6
0°-60°	818.4	90.9
0°-90°	899.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	899.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	641	
5°	634	60
15°	583	163
25°	487	222
35°	305	190
45°	141	112
55°	78	71
65°	48	48
75°	25	26
85°	6	7
90°	0	



TEST NUMBER: P579694  
CATALOG NUMBER: HCC4W10D010SL-HM40525827-41NDW

**CANDELA DISTRIBUTION (FULL):**

0°	
0°	640.9
2.5°	636.4
5°	633.8
7.5°	625.3
10°	610.2
12.5°	597.1
15°	582.8
17.5°	564.4
20°	541.6
22.5°	516.1
25°	486.6
27.5°	451.9
30°	409.5
32.5°	359.0
35°	305.4
37.5°	253.8
40°	207.3
42.5°	168.8
45°	140.7
47.5°	120.4
50°	104.0
52.5°	90.2
55°	77.8
57.5°	68.1
60°	61.5
62.5°	55.0
65°	47.8
67.5°	41.9
70°	36.0
72.5°	30.0
75°	24.8
77.5°	19.6
80°	15.0
82.5°	10.5
85°	6.5
87.5°	2.6
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)