

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: P579765

Luminaire Tested: **HCC4W10D010SL-HM40525927-41MDW**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P579765  
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: HCC4W10D010SL-HM40525927-41MDW  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" MEDIUM DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

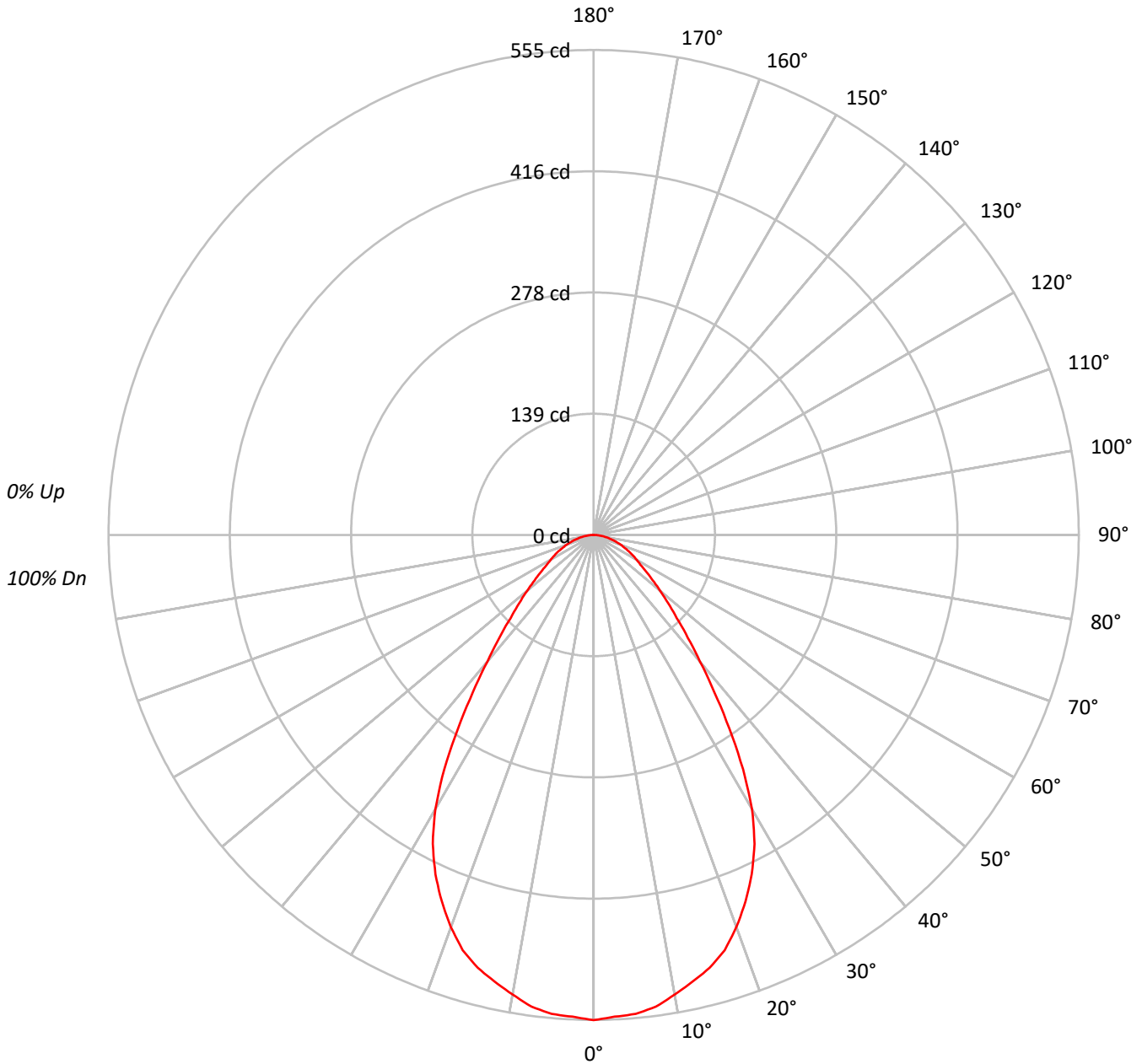
Lumens per Lamp: N/A  
Luminaire Lumens: 808.0 lumens  
Efficiency: N/A  
Efficacy: 81.6 lumens/watt  
Spacing Criteria (0/90/45): 1.04 / 1.04 / 1.01  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 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: P579765  
CATALOG NUMBER: HCC4W10D010SL-HM40525927-41MDW

### Luminous Intensity Polar Plot





TEST NUMBER: P579765

CATALOG NUMBER: HCC4W10D010SL-HM40525927-41MDW

**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°	68494
5°	68136
10°	66895
15°	65483
20°	62677
25°	58277
30°	51587
35°	40716
40°	30464
45°	23444
50°	19016
55°	15763
60°	13963
65°	12929
70°	11901
75°	10961
80°	9944
85°	7925



TEST NUMBER: P579765  
 CATALOG NUMBER: HCC4W10D010SL-HM40525927-41MDW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	52.0	6.4
10°-20°	143.8	17.8
20°-30°	195.3	24.2
30°-40°	169.1	20.9
40°-50°	106.2	13.1
50°-60°	66.8	8.3
60°-70°	43.9	5.4
70°-80°	24.2	3.0
80°-90°	6.7	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°	391.1	48.4
0°-40°	560.2	69.3
0°-60°	733.2	90.7
0°-90°	808.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	808.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	555	
5°	550	52
15°	513	144
25°	428	195
35°	270	169
45°	134	106
55°	73	67
65°	44	44
75°	23	24
85°	6	7
90°	0	



TEST NUMBER: P579765  
CATALOG NUMBER: HCC4W10D010SL-HM40525927-41MDW

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	555.3
2.5°	551.9
5°	550.3
7.5°	544.6
10°	534.1
12.5°	523.5
15°	512.8
17.5°	498.2
20°	477.5
22.5°	454.1
25°	428.2
27.5°	398.6
30°	362.2
32.5°	318.0
35°	270.4
37.5°	226.7
40°	189.2
42.5°	159.5
45°	134.4
47.5°	115.3
50°	99.1
52.5°	85.1
55°	73.3
57.5°	63.3
60°	56.6
62.5°	50.4
65°	44.3
67.5°	38.1
70°	33.0
72.5°	27.4
75°	23.0
77.5°	17.9
80°	14.0
82.5°	9.6
85°	5.6
87.5°	2.3
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)