

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: P592702

Luminaire Tested: **HCC4W25D010MB-HM40525850-41NDW**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P592702  
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: HCC4W25D010MB-HM40525850-41NDW  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" NARROW DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

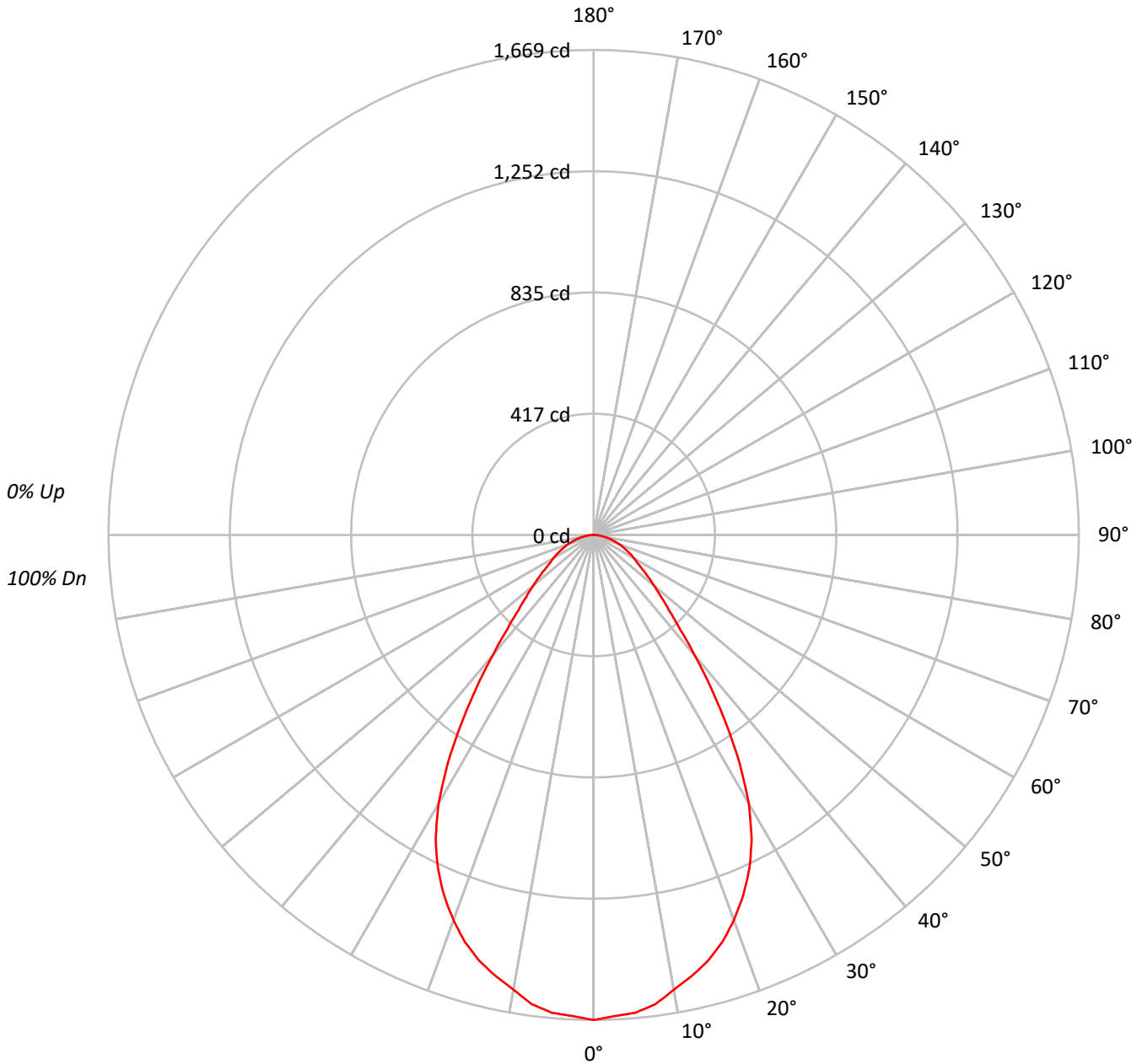
Lumens per Lamp: N/A  
Luminaire Lumens: 2343.6 lumens  
Efficiency: N/A  
Efficacy: 87.4 lumens/watt  
Spacing Criteria (0/90/45): 1.03 / 1.03 / 1.01  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 26.8  
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: P592702  
CATALOG NUMBER: HCC4W25D010MB-HM40525850-41NDW

### Luminous Intensity Polar Plot





TEST NUMBER: P592702

CATALOG NUMBER: HCC4W25D010MB-HM40525850-41NDW

**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°	205901
5°	204372
10°	199045
15°	193805
20°	185118
25°	172476
30°	151870
35°	119784
40°	86949
45°	63879
50°	51964
55°	43590
60°	39495
65°	36278
70°	33792
75°	30834
80°	27845
85°	24059



TEST NUMBER: P592702  
 CATALOG NUMBER: HCC4W25D010MB-HM40525850-41NDW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	155.6	6.6
10°-20°	425.7	18.2
20°-30°	577.1	24.6
30°-40°	495.2	21.1
40°-50°	292.4	12.5
50°-60°	185.3	7.9
60°-70°	124.5	5.3
70°-80°	68.7	2.9
80°-90°	19.2	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°	1158.4	49.4
0°-40°	1653.6	70.6
0°-60°	2131.2	90.9
0°-90°	2343.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2343.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1669	
5°	1651	156
15°	1518	426
25°	1267	577
35°	796	495
45°	366	292
55°	203	185
65°	124	124
75°	65	69
85°	17	19
90°	0	



TEST NUMBER: P592702  
CATALOG NUMBER: HCC4W25D010MB-HM40525850-41NDW

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1669.3
2.5°	1657.4
5°	1650.6
7.5°	1628.5
10°	1589.2
12.5°	1555.2
15°	1517.7
17.5°	1470.0
20°	1410.3
22.5°	1344.0
25°	1267.3
27.5°	1177.0
30°	1066.3
32.5°	935.2
35°	795.5
37.5°	660.9
40°	540.0
42.5°	439.5
45°	366.2
47.5°	313.4
50°	270.8
52.5°	235.1
55°	202.7
57.5°	177.1
60°	160.1
62.5°	143.0
65°	124.3
67.5°	109.1
70°	93.7
72.5°	78.4
75°	64.7
77.5°	51.1
80°	39.2
82.5°	27.2
85°	17.0
87.5°	6.8
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)