

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: P580166

Luminaire Tested: **HCC4W25D010BZ-HM40525840-41WDWB**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P580166  
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: HCC4W25D010BZ-HM40525840-41WDWB  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, WHITE BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

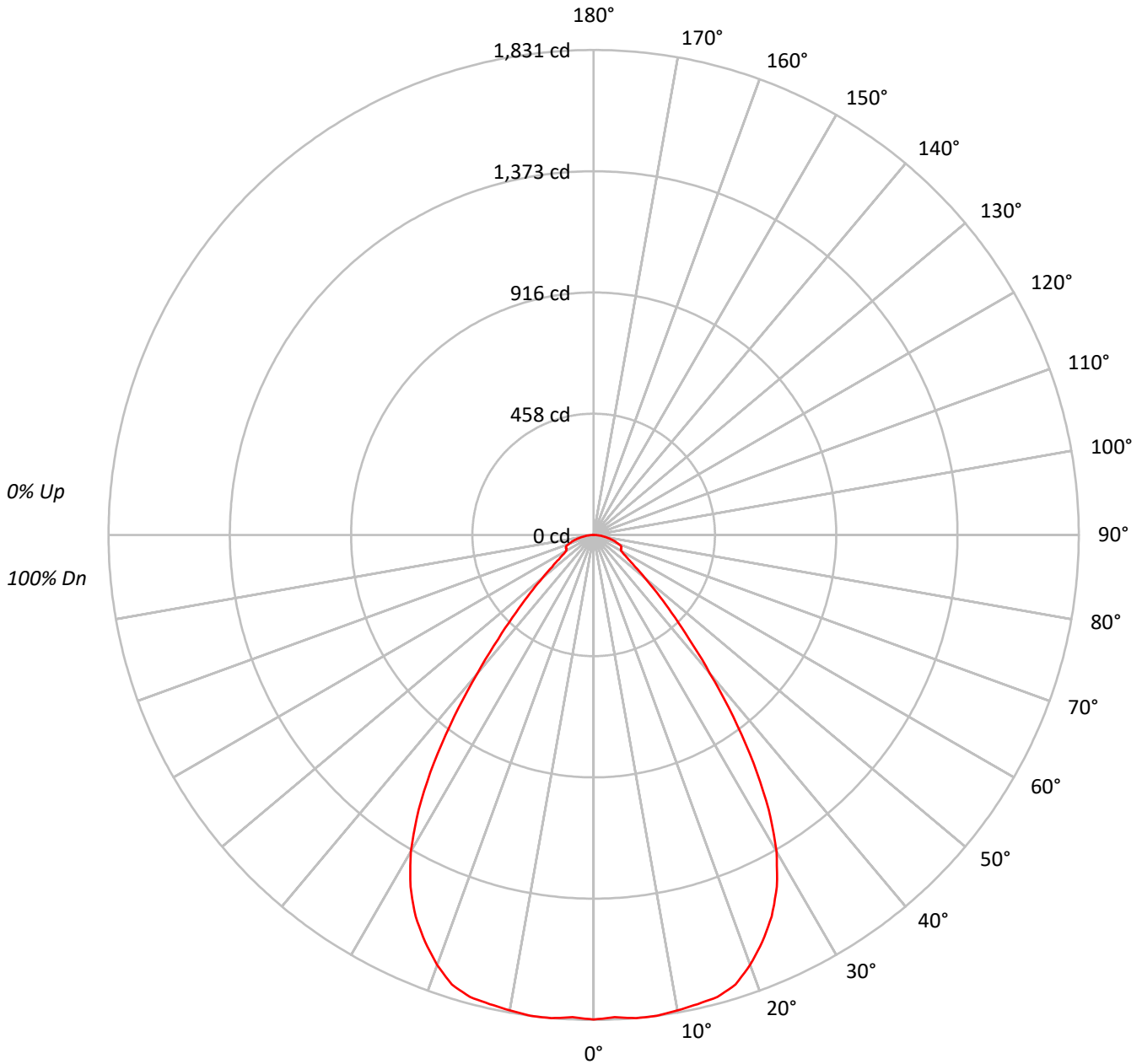
Lumens per Lamp: N/A  
Luminaire Lumens: 2748.9 lumens  
Efficiency: N/A  
Efficacy: 102.6 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.14 / 1.07  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 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: P580166  
CATALOG NUMBER: HCC4W25D010BZ-HM40525840-41WDWB

### Luminous Intensity Polar Plot





TEST NUMBER: P580166

CATALOG NUMBER: HCC4W25D010BZ-HM40525840-41WDWB

**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	0
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°	225685
5°	226758
10°	228315
15°	230595
20°	226755
25°	216312
30°	196535
35°	158528
40°	110006
45°	72217
50°	48376
55°	34429
60°	29406
65°	33797
70°	36244
75°	34933
80°	31467
85°	28871



TEST NUMBER: P580166  
 CATALOG NUMBER: HCC4W25D010BZ-HM40525840-41WDWB

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	174.5	6.3
10°-20°	507.3	18.5
20°-30°	724.8	26.4
30°-40°	647.5	23.6
40°-50°	332.1	12.1
50°-60°	150.9	5.5
60°-70°	112.5	4.1
70°-80°	76.6	2.8
80°-90°	22.7	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°	1406.6	51.2
0°-40°	2054.1	74.7
0°-60°	2537.1	92.3
0°-90°	2748.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2748.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1830	
5°	1831	175
15°	1806	507
25°	1589	725
35°	1053	647
45°	414	332
55°	160	151
65°	116	113
75°	73	77
85°	20	23
90°	0	



TEST NUMBER: P580166  
CATALOG NUMBER: HCC4W25D010BZ-HM40525840-41WDWB

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1829.7
2.5°	1822.9
5°	1831.4
7.5°	1831.4
10°	1822.9
12.5°	1814.3
15°	1805.8
17.5°	1780.2
20°	1727.5
22.5°	1662.7
25°	1589.4
27.5°	1497.5
30°	1379.9
32.5°	1230.0
35°	1052.8
37.5°	863.7
40°	683.2
42.5°	533.2
45°	414.0
47.5°	323.7
50°	252.1
52.5°	197.6
55°	160.1
57.5°	134.6
60°	119.2
62.5°	115.8
65°	115.8
67.5°	112.4
70°	100.5
72.5°	86.9
75°	73.3
77.5°	57.9
80°	44.3
82.5°	32.4
85°	20.4
87.5°	8.5
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)