

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: P580137

Luminaire Tested: **HCC4W25D010BZ-HM40525830-41WDC**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P580137  
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: HCC4W25D010BZ-HM40525830-41WDC  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, SPECULAR TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

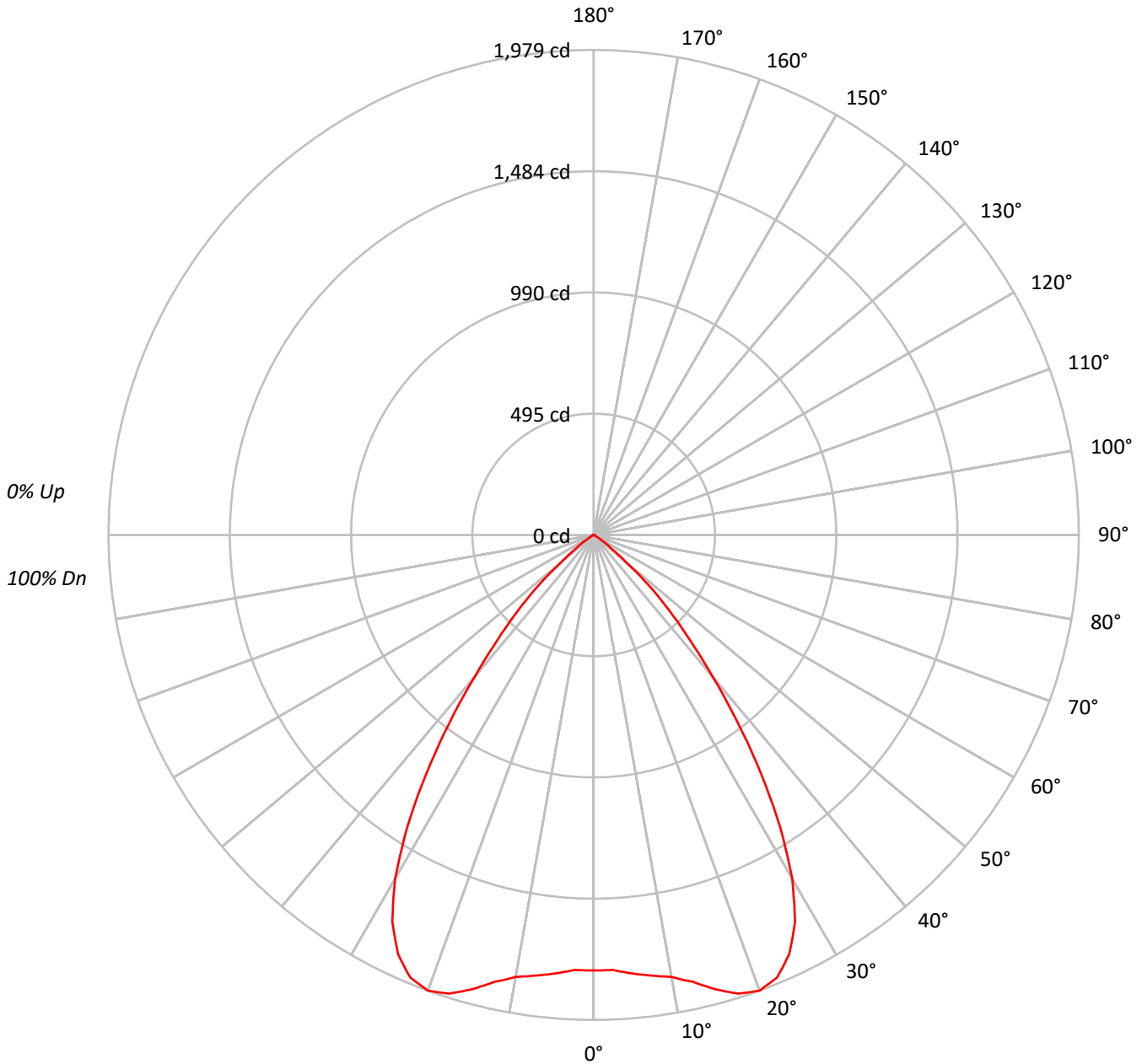
Lumens per Lamp: N/A  
Luminaire Lumens: 2713.6 lumens  
Efficiency: N/A  
Efficacy: 101.3 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.11  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 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: P580137  
CATALOG NUMBER: HCC4W25D010BZ-HM40525830-41WDC

### Luminous Intensity Polar Plot





TEST NUMBER: P580137

CATALOG NUMBER: HCC4W25D010BZ-HM40525830-41WDC

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

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

	0°
0°	219210
5°	222424
10°	229405
15°	245114
20°	259741
25°	256896
30°	230575
35°	179458
40°	121583
45°	75898
50°	32852
55°	10989
60°	2763
65°	1868
70°	1154
75°	763
80°	1137
85°	0



TEST NUMBER: P580137  
 CATALOG NUMBER: HCC4W25D010BZ-HM40525830-41WDC

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	172.6	6.4
10°-20°	544.9	20.1
20°-30°	853.8	31.5
30°-40°	736.9	27.2
40°-50°	338.9	12.5
50°-60°	57.5	2.1
60°-70°	6.5	0.2
70°-80°	2.3	0.1
80°-90°	0.2	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°	1571.3	57.9
0°-40°	2308.2	85.1
0°-60°	2704.5	99.7
0°-90°	2713.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2713.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1777	
5°	1796	173
15°	1920	545
25°	1888	854
35°	1192	737
45°	435	339
55°	51	58
65°	6	7
75°	2	2
85°	0	0
90°	0	



TEST NUMBER: P580137  
CATALOG NUMBER: HCC4W25D010BZ-HM40525830-41WDC

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1777.2
2.5°	1777.2
5°	1796.4
7.5°	1814.0
10°	1831.6
12.5°	1868.4
15°	1919.5
17.5°	1962.8
20°	1978.8
22.5°	1954.8
25°	1887.6
27.5°	1778.9
30°	1618.9
32.5°	1417.2
35°	1191.8
37.5°	964.6
40°	755.1
42.5°	577.5
45°	435.1
47.5°	305.5
50°	171.2
52.5°	94.4
55°	51.1
57.5°	25.6
60°	11.2
62.5°	8.0
65°	6.4
67.5°	4.9
70°	3.2
72.5°	3.2
75°	1.6
77.5°	1.6
80°	1.6
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)