

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: P580258

Luminaire Tested: **HCC4W30D010BZ-HM43040827-41WDH**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P580258  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-8)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/9/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC4W30D010BZ-HM43040827-41WDH  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

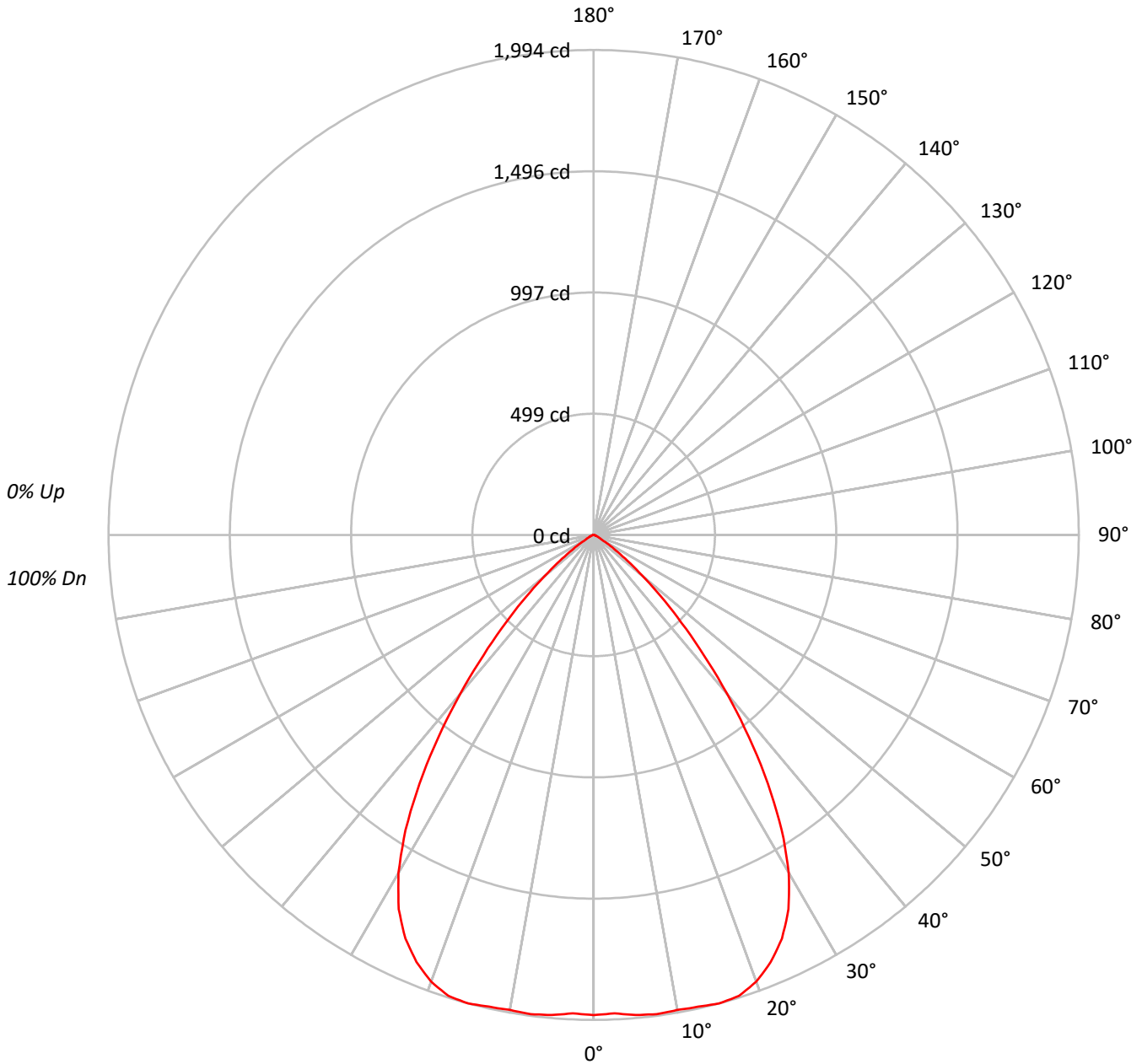
Lumens per Lamp: N/A  
Luminaire Lumens: 2896.4 lumens  
Efficiency: N/A  
Efficacy: 103.4 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.1  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 28  
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: P580258  
CATALOG NUMBER: HCC4W30D010BZ-HM43040827-41WDH

### Luminous Intensity Polar Plot





TEST NUMBER: P580258

CATALOG NUMBER: HCC4W30D010BZ-HM43040827-41WDH

**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	104	110	108	105	103	103	101	100	100	98	97	96	95	94	92	92	92	92
2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	88	86	84	84	84	84
3	100	93	87	82	98	91	86	82	88	84	80	86	82	79	84	81	78	76	76	76	76
4	94	85	79	74	92	84	78	74	82	77	73	80	75	72	78	74	71	69	69	69	69
5	88	79	72	67	86	78	72	67	76	70	66	74	69	66	72	68	65	63	63	63	63
6	83	73	66	61	81	72	66	61	70	65	61	69	64	60	68	63	60	58	58	58	58
7	78	68	61	56	77	67	60	56	65	60	55	64	59	55	63	58	55	53	53	53	53
8	74	63	56	51	72	62	56	51	61	55	51	60	55	51	59	54	51	49	49	49	49
9	69	59	52	47	68	58	52	47	57	51	47	56	51	47	55	50	47	45	45	45	45
10	66	55	48	44	65	54	48	44	53	48	44	53	47	44	52	47	43	42	42	42	42

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

	0°
0°	243521
5°	245355
10°	248418
15°	254653
20°	256538
25°	249193
30°	228468
35°	187996
40°	137041
45°	88945
50°	50160
55°	23806
60°	9399
65°	5837
70°	3931
75°	2573
80°	1279
85°	2547



TEST NUMBER: P580258  
 CATALOG NUMBER: HCC4W30D010BZ-HM43040827-41WDH

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	189.2	6.5
10°-20°	562.2	19.4
20°-30°	833.9	28.8
30°-40°	770.2	26.6
40°-50°	402.2	13.9
50°-60°	110.2	3.8
60°-70°	21.2	0.7
70°-80°	5.9	0.2
80°-90°	1.2	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°	1585.4	54.7
0°-40°	2355.6	81.3
0°-60°	2868.0	99.0
0°-90°	2896.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2896.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1974	
5°	1982	189
15°	1994	562
25°	1831	834
35°	1248	770
45°	510	402
55°	111	110
65°	20	21
75°	5	6
85°	2	1
90°	0	



TEST NUMBER: P580258  
CATALOG NUMBER: HCC4W30D010BZ-HM43040827-41WDH

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1974.3
2.5°	1968.8
5°	1981.6
7.5°	1987.0
10°	1983.4
12.5°	1987.0
15°	1994.2
17.5°	1987.0
20°	1954.4
22.5°	1901.7
25°	1831.0
27.5°	1734.8
30°	1604.1
32.5°	1439.0
35°	1248.5
37.5°	1048.8
40°	851.1
42.5°	669.6
45°	509.9
47.5°	373.8
50°	261.4
52.5°	174.2
55°	110.7
57.5°	65.3
60°	38.1
62.5°	27.2
65°	20.0
67.5°	14.6
70°	10.9
72.5°	7.2
75°	5.4
77.5°	3.6
80°	1.8
82.5°	1.8
85°	1.8
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)