

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: P580654

Luminaire Tested: **HCC4W40D010BZ-HM43040935-41NDH**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P580654  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-2)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/9/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC4W40D010BZ-HM43040935-41NDH  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" NARROW DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

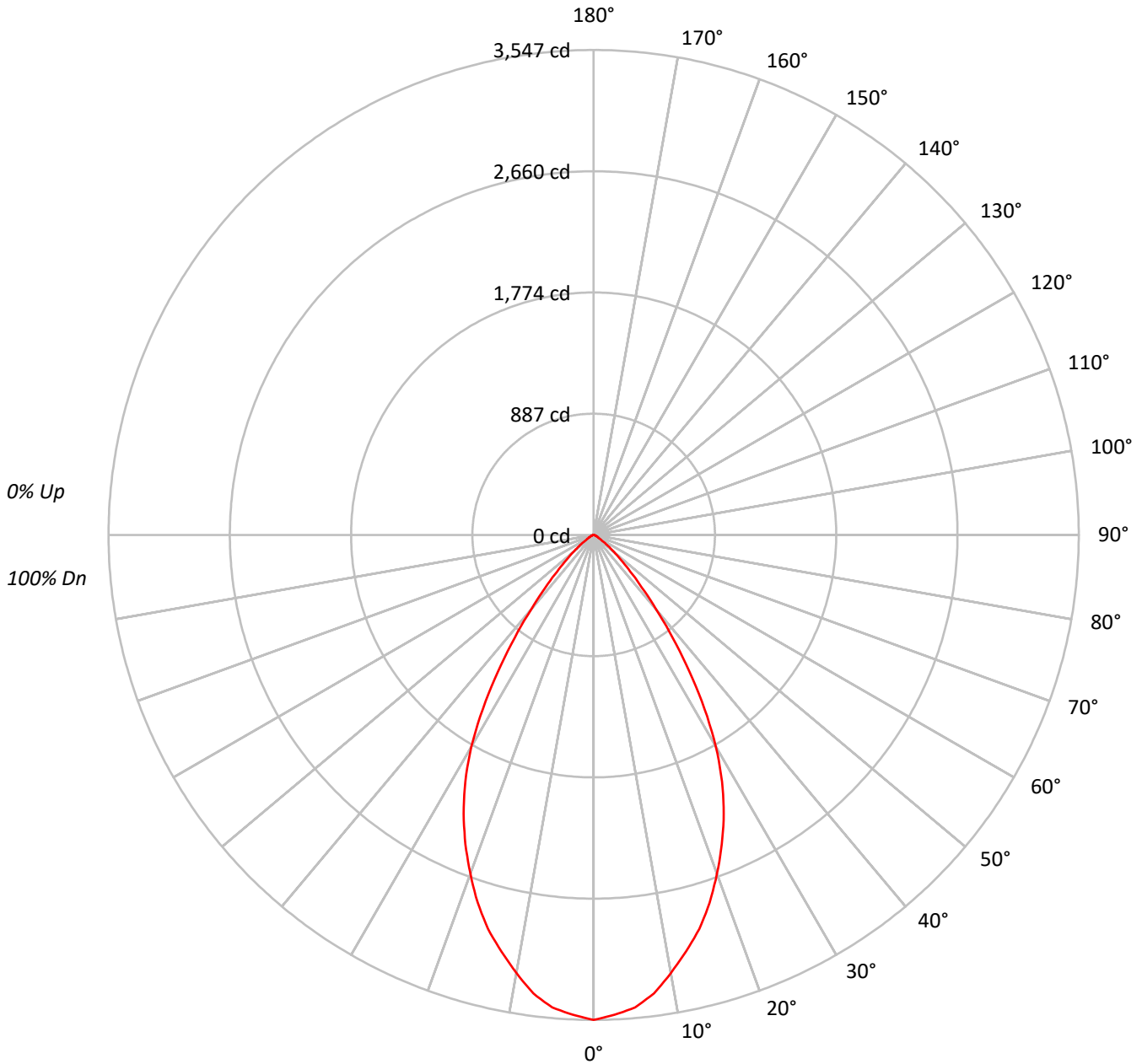
Lumens per Lamp: N/A  
Luminaire Lumens: 3373.4 lumens  
Efficiency: N/A  
Efficacy: 82.3 lumens/watt  
Spacing Criteria (0/90/45): 0.89 / 0.89 / 0.91  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 41  
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: P580654  
CATALOG NUMBER: HCC4W40D010BZ-HM43040935-41NDH

### Luminous Intensity Polar Plot





TEST NUMBER: P580654

CATALOG NUMBER: HCC4W40D010BZ-HM43040935-41NDH

**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	108	105	111	108	106	104	104	102	100	100	99	97	97	96	95	93	93	93	93
2	107	102	98	94	105	100	96	93	97	94	91	94	91	89	91	89	87	86	86	86	86
3	101	95	89	85	99	93	88	84	91	86	83	88	85	82	86	83	81	79	79	79	79
4	96	88	82	78	94	87	81	77	85	80	76	82	79	75	81	77	74	73	73	73	73
5	91	82	76	71	89	81	75	71	79	74	70	77	73	70	76	72	69	67	67	67	67
6	86	76	70	66	84	76	70	65	74	69	65	73	68	64	71	67	64	63	63	63	63
7	81	72	65	61	80	71	65	61	70	64	60	68	64	60	67	63	60	58	58	58	58
8	77	67	61	57	76	67	61	56	65	60	56	64	59	56	63	59	56	54	54	54	54
9	73	63	57	53	72	63	57	53	62	56	52	61	56	52	60	55	52	51	51	51	51
10	70	59	53	49	69	59	53	49	58	53	49	57	52	49	57	52	49	48	48	48	48

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

	0°
0°	437544
5°	429582
10°	407471
15°	381009
20°	346019
25°	306191
30°	254688
35°	183644
40°	114611
45°	66112
50°	37304
55°	17763
60°	10188
65°	7793
70°	5265
75°	3479
80°	3410
85°	3538



TEST NUMBER: P580654  
 CATALOG NUMBER: HCC4W40D010BZ-HM43040935-41NDH

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	324.3	9.6
10°-20°	832.3	24.7
20°-30°	1023.6	30.3
30°-40°	760.2	22.5
40°-50°	309.1	9.2
50°-60°	85.6	2.5
60°-70°	26.6	0.8
70°-80°	8.9	0.3
80°-90°	2.7	0.1
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°	2180.3	64.6
0°-40°	2940.5	87.2
0°-60°	3335.1	98.9
0°-90°	3373.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3373.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3547	
5°	3470	324
15°	2984	832
25°	2250	1024
35°	1220	760
45°	379	309
55°	83	86
65°	27	27
75°	7	9
85°	2	3
90°	0	



TEST NUMBER: P580654  
CATALOG NUMBER: HCC4W40D010BZ-HM43040935-41NDH

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3547.3
2.5°	3513.2
5°	3469.5
7.5°	3382.1
10°	3253.3
12.5°	3119.6
15°	2983.7
17.5°	2820.8
20°	2636.1
22.5°	2449.0
25°	2249.8
27.5°	2033.6
30°	1788.2
32.5°	1508.8
35°	1219.6
37.5°	947.6
40°	711.8
42.5°	519.9
45°	379.0
47.5°	272.1
50°	194.4
52.5°	133.6
55°	82.6
57.5°	53.5
60°	41.3
62.5°	34.0
65°	26.7
67.5°	19.4
70°	14.6
72.5°	12.1
75°	7.3
77.5°	4.8
80°	4.8
82.5°	2.5
85°	2.5
87.5°	2.5
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)