

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: P581013

Luminaire Tested: **HCC4W05D010BZ-HM40525835-41MDH**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P581013  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-5)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/9/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC4W05D010BZ-HM40525835-41MDH  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" MEDIUM DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

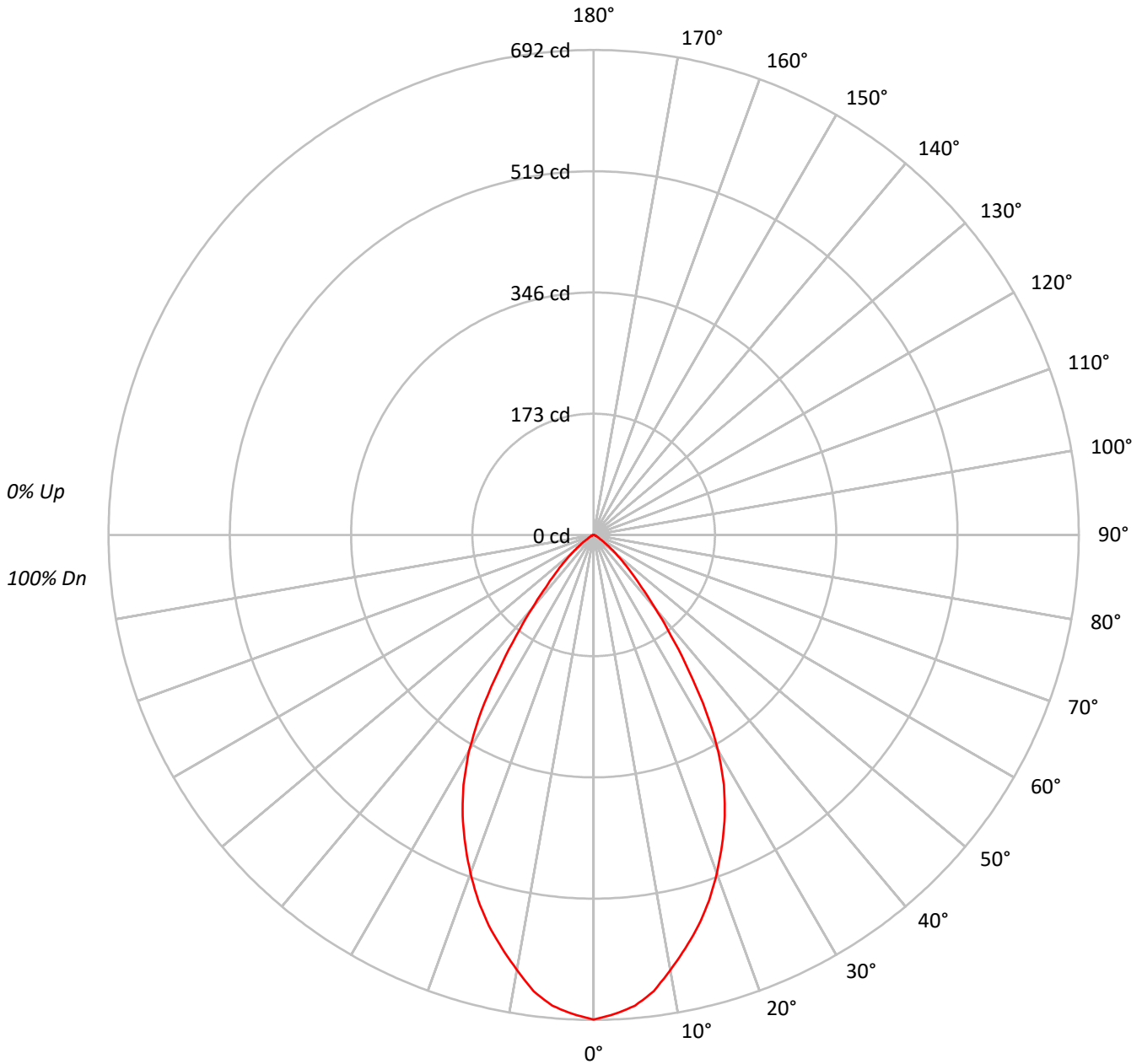
Lumens per Lamp: N/A  
Luminaire Lumens: 658.9 lumens  
Efficiency: N/A  
Efficacy: 109.8 lumens/watt  
Spacing Criteria (0/90/45): 0.9 / 0.9 / 0.91  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 6  
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: P581013  
CATALOG NUMBER: HCC4W05D010BZ-HM40525835-41MDH

### Luminous Intensity Polar Plot





TEST NUMBER: P581013  
 CATALOG NUMBER: HCC4W05D010BZ-HM40525835-41MDH

**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	62	62	62	62
7	81	71	65	61	80	71	65	61	69	64	60	68	63	60	67	63	60	58	58	58	58
8	77	67	61	56	76	66	60	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	47	47	47	47

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

	0°
0°	85306
5°	83514
10°	78932
15°	73719
20°	67416
25°	60196
30°	50547
35°	35566
40°	21930
45°	13135
50°	7733
55°	3849
60°	1998
65°	1284
70°	829
75°	667
80°	355
85°	708



TEST NUMBER: P581013  
 CATALOG NUMBER: HCC4W05D010BZ-HM40525835-41MDH

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	63.0	9.6
10°-20°	161.4	24.5
20°-30°	201.2	30.5
30°-40°	148.2	22.5
40°-50°	61.0	9.3
50°-60°	17.8	2.7
60°-70°	4.6	0.7
70°-80°	1.4	0.2
80°-90°	0.3	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°	425.6	64.6
0°-40°	573.8	87.1
0°-60°	652.6	99.0
0°-90°	658.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	658.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	692	
5°	674	63
15°	577	161
25°	442	201
35°	236	148
45°	75	61
55°	18	18
65°	4	5
75°	1	1
85°	0	0
90°	0	



TEST NUMBER: P581013  
CATALOG NUMBER: HCC4W05D010BZ-HM40525835-41MDH

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	691.6
2.5°	684.3
5°	674.5
7.5°	656.6
10°	630.2
12.5°	604.2
15°	577.3
17.5°	547.2
20°	513.6
22.5°	478.6
25°	442.3
27.5°	402.0
30°	354.9
32.5°	298.1
35°	236.2
37.5°	181.5
40°	136.2
42.5°	100.8
45°	75.3
47.5°	55.6
50°	40.3
52.5°	27.8
55°	17.9
57.5°	10.8
60°	8.1
62.5°	5.8
65°	4.4
67.5°	3.2
70°	2.3
72.5°	1.8
75°	1.4
77.5°	0.9
80°	0.5
82.5°	0.5
85°	0.5
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)