

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: P580167

Luminaire Tested: **HCC4S25D010BZ-HM40525840-41MDH**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P580167  
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: HCC4S25D010BZ-HM40525840-41MDH  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" MEDIUM DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

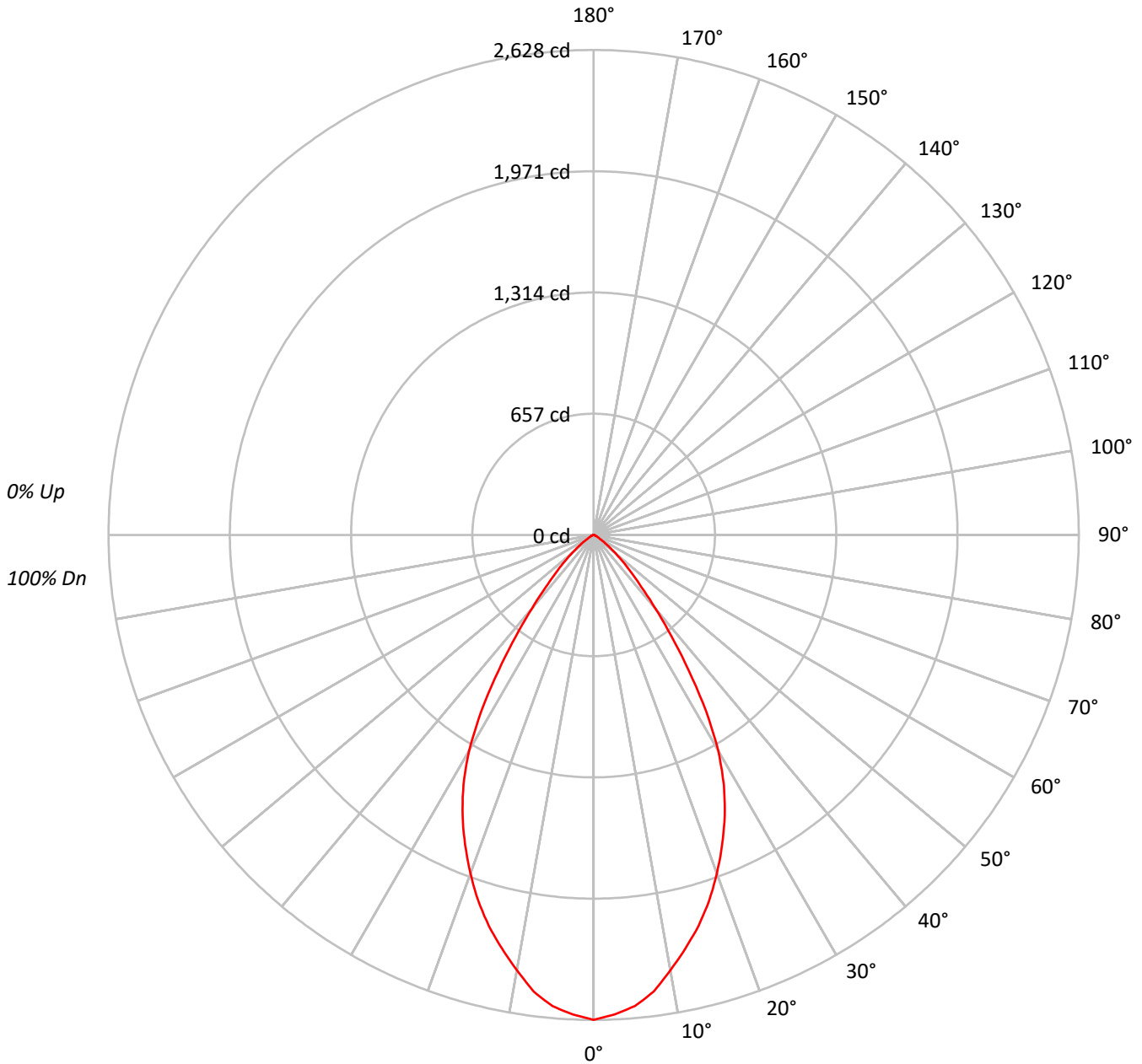
Lumens per Lamp: N/A  
Luminaire Lumens: 2503.7 lumens  
Efficiency: N/A  
Efficacy: 93.4 lumens/watt  
Spacing Criteria (0/90/45): 0.9 / 0.9 / 0.91  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 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: P580167  
CATALOG NUMBER: HCC4S25D010BZ-HM40525840-41MDH

### Luminous Intensity Polar Plot





TEST NUMBER: P580167

CATALOG NUMBER: HCC4S25D010BZ-HM40525840-41MDH

**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°	324140
5°	317355
10°	299907
15°	280103
20°	256183
25°	228779
30°	192106
35°	135158
40°	83374
45°	49906
50°	29417
55°	14645
60°	7573
65°	4962
70°	3065
75°	2431
80°	1208
85°	2406



TEST NUMBER: P580167  
 CATALOG NUMBER: HCC4S25D010BZ-HM40525840-41MDH

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	239.4	9.6
10°-20°	613.2	24.5
20°-30°	764.7	30.5
30°-40°	563.3	22.5
40°-50°	231.7	9.3
50°-60°	67.7	2.7
60°-70°	17.4	0.7
70°-80°	5.4	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°	1617.2	64.6
0°-40°	2180.5	87.1
0°-60°	2479.8	99.0
0°-90°	2503.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2503.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2628	
5°	2563	239
15°	2194	613
25°	1681	765
35°	898	563
45°	286	232
55°	68	68
65°	17	17
75°	5	5
85°	2	1
90°	0	



TEST NUMBER: P580167  
CATALOG NUMBER: HCC4S25D010BZ-HM40525840-41MDH

**CANDELA DISTRIBUTION (FULL):**

0°	
0°	2627.9
2.5°	2600.5
5°	2563.1
7.5°	2495.0
10°	2394.5
12.5°	2295.7
15°	2193.5
17.5°	2079.4
20°	1951.7
22.5°	1818.8
25°	1681.0
27.5°	1527.6
30°	1348.8
32.5°	1132.5
35°	897.6
37.5°	689.7
40°	517.8
42.5°	383.2
45°	286.1
47.5°	211.2
50°	153.3
52.5°	105.6
55°	68.1
57.5°	40.9
60°	30.7
62.5°	22.1
65°	17.0
67.5°	12.0
70°	8.5
72.5°	6.8
75°	5.1
77.5°	3.4
80°	1.7
82.5°	1.7
85°	1.7
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)