

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: P580115

Luminaire Tested: **HCC4S25D010MB-HM40525827-41WDH**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P580115  
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: HCC4S25D010MB-HM40525827-41WDH  
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**

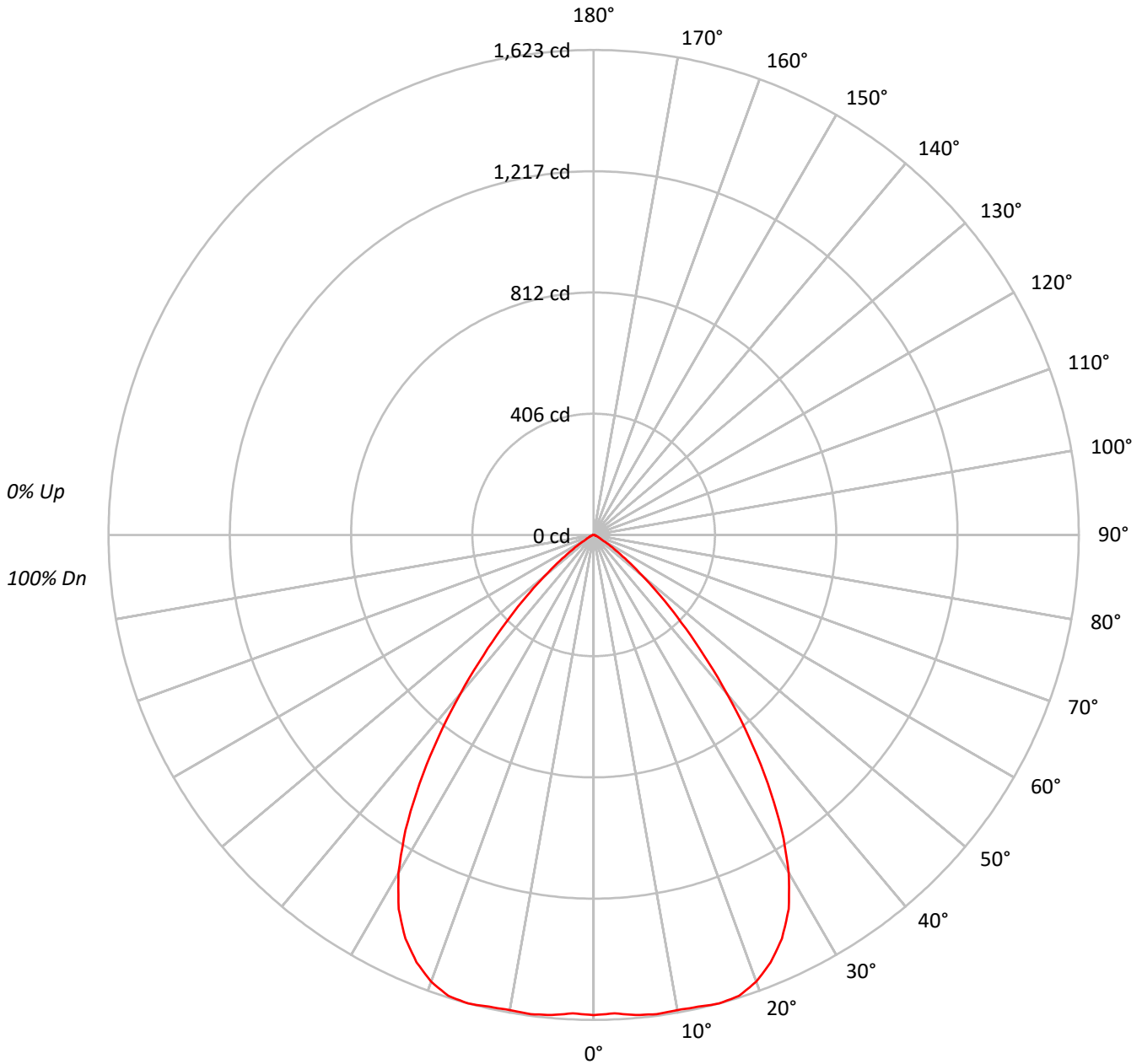
Lumens per Lamp: N/A  
Luminaire Lumens: 2357.7 lumens  
Efficiency: N/A  
Efficacy: 88.0 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.1  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 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: P580115  
CATALOG NUMBER: HCC4S25D010MB-HM40525827-41WDH

### Luminous Intensity Polar Plot





TEST NUMBER: P580115  
 CATALOG NUMBER: HCC4S25D010MB-HM40525827-41WDH

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20									20									20									20									
RC	80									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																
1	113	110	107	104	110	108	105	103	103	101	100	100	98	97	96	95	94	92			92																
2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	88	86	84			84																
3	100	93	87	82	98	91	86	82	88	84	80	86	82	79	84	81	78	76			76																
4	94	85	79	74	92	84	78	74	82	77	73	80	75	72	78	74	71	69			69																
5	88	79	72	67	86	78	72	67	76	70	66	74	69	66	72	68	65	63			63																
6	83	73	66	61	81	72	66	61	70	65	61	69	64	60	68	63	60	58			58																
7	78	68	61	56	77	67	60	56	65	60	55	64	59	55	63	58	55	53			53																
8	74	63	56	51	72	62	56	51	61	55	51	60	55	51	59	54	51	49			49																
9	69	59	52	47	68	58	52	47	57	51	47	56	51	47	55	50	47	45			45																
10	66	55	48	44	65	54	48	44	53	48	44	53	47	44	52	47	43	42			42																

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

	0°
0°	198229
5°	199716
10°	202214
15°	207303
20°	208824
25°	202839
30°	185982
35°	153017
40°	111552
45°	72391
50°	40815
55°	19376
60°	7647
65°	4757
70°	3174
75°	2097
80°	1065
85°	2123



TEST NUMBER: P580115  
 CATALOG NUMBER: HCC4S25D010MB-HM40525827-41WDH

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	154.0	6.5
10°-20°	457.7	19.4
20°-30°	678.8	28.8
30°-40°	627.0	26.6
40°-50°	327.4	13.9
50°-60°	89.7	3.8
60°-70°	17.3	0.7
70°-80°	4.8	0.2
80°-90°	1.0	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°	1290.5	54.7
0°-40°	1917.4	81.3
0°-60°	2334.5	99.0
0°-90°	2357.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2357.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1607	
5°	1613	154
15°	1623	458
25°	1490	679
35°	1016	627
45°	415	327
55°	90	90
65°	16	17
75°	4	5
85°	2	1
90°	0	



TEST NUMBER: P580115  
CATALOG NUMBER: HCC4S25D010MB-HM40525827-41WDH

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1607.1
2.5°	1602.6
5°	1613.0
7.5°	1617.4
10°	1614.5
12.5°	1617.4
15°	1623.4
17.5°	1617.4
20°	1590.9
22.5°	1548.0
25°	1490.4
27.5°	1412.2
30°	1305.8
32.5°	1171.3
35°	1016.2
37.5°	853.7
40°	692.8
42.5°	545.1
45°	415.0
47.5°	304.3
50°	212.7
52.5°	141.8
55°	90.1
57.5°	53.2
60°	31.0
62.5°	22.1
65°	16.3
67.5°	11.9
70°	8.8
72.5°	5.9
75°	4.4
77.5°	2.9
80°	1.5
82.5°	1.5
85°	1.5
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)