

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: P580173

Luminaire Tested: **HCC4S25D010SL-HM40525840-41WDC**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P580173  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-7)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/9/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC4S25D010SL-HM40525840-41WDC  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, SPECULAR TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

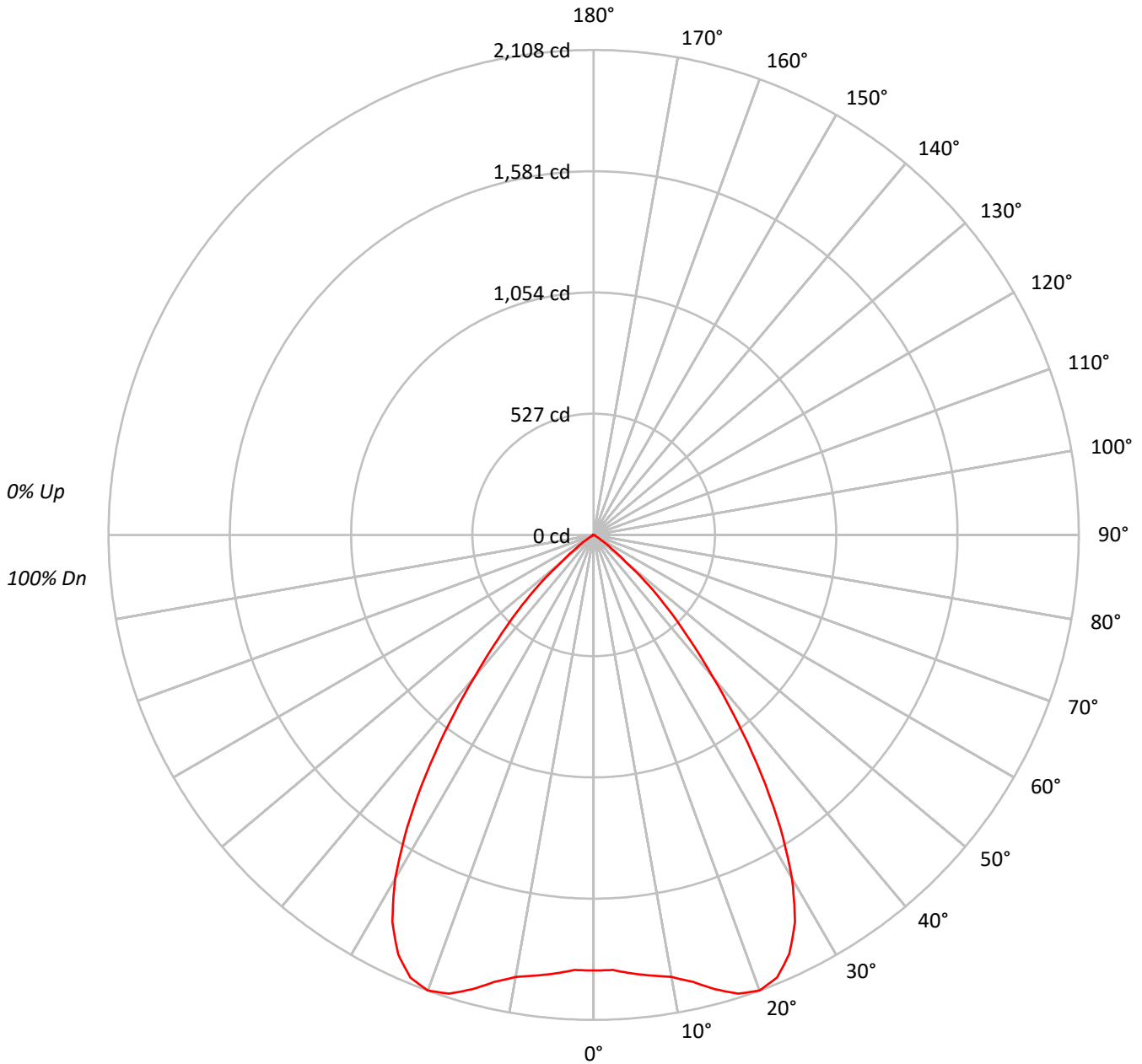
Lumens per Lamp: N/A  
Luminaire Lumens: 2890.3 lumens  
Efficiency: N/A  
Efficacy: 107.8 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.11  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

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: P580173  
CATALOG NUMBER: HCC4S25D010SL-HM40525840-41WDC

### Luminous Intensity Polar Plot





TEST NUMBER: P580173  
 CATALOG NUMBER: HCC4S25D010SL-HM40525840-41WDC

**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																			
1	113	110	107	105	110	108	105	103	104	102	100	100	98	97	97	95	94	92																			
2	107	101	97	93	104	100	96	92	96	93	90	93	91	88	91	88	86	85																			
3	101	93	88	84	98	92	87	83	89	85	82	87	83	80	85	82	79	77																			
4	95	86	80	76	93	85	79	75	83	78	74	81	77	73	79	75	72	71																			
5	89	80	73	69	87	79	73	68	77	72	68	75	71	67	74	70	66	65																			
6	84	74	67	63	82	73	67	62	72	66	62	70	65	62	69	65	61	60																			
7	79	69	62	57	78	68	62	57	67	61	57	65	60	57	64	60	56	55																			
8	75	64	57	53	73	63	57	53	62	57	53	61	56	52	60	56	52	51																			
9	70	60	53	49	69	59	53	49	58	53	49	57	52	48	56	52	48	47																			
10	67	56	50	45	66	55	49	45	55	49	45	54	49	45	53	48	45	43																			

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

	0°
0°	233493
5°	236911
10°	244347
15°	261089
20°	276660
25°	273623
30°	245587
35°	191128
40°	129489
45°	80852
50°	34982
55°	11720
60°	2960
65°	1985
70°	1226
75°	810
80°	1208
85°	0



TEST NUMBER: P580173  
 CATALOG NUMBER: HCC4S25D010SL-HM40525840-41WDC

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	183.8	6.4
10°-20°	580.4	20.1
20°-30°	909.4	31.5
30°-40°	784.9	27.2
40°-50°	361.0	12.5
50°-60°	61.3	2.1
60°-70°	6.9	0.2
70°-80°	2.5	0.1
80°-90°	0.2	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°	1673.6	57.9
0°-40°	2458.5	85.1
0°-60°	2880.7	99.7
0°-90°	2890.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2890.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1893	
5°	1913	184
15°	2045	580
25°	2010	909
35°	1269	785
45°	464	361
55°	54	61
65°	7	7
75°	2	2
85°	0	0
90°	0	



TEST NUMBER: P580173  
CATALOG NUMBER: HCC4S25D010SL-HM40525840-41WDC

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1893.0
2.5°	1893.0
5°	1913.4
7.5°	1932.2
10°	1950.9
12.5°	1990.1
15°	2044.6
17.5°	2090.7
20°	2107.7
22.5°	2082.1
25°	2010.5
27.5°	1894.7
30°	1724.3
32.5°	1509.6
35°	1269.3
37.5°	1027.4
40°	804.2
42.5°	615.1
45°	463.5
47.5°	325.5
50°	182.3
52.5°	100.5
55°	54.5
57.5°	27.2
60°	12.0
62.5°	8.5
65°	6.8
67.5°	5.1
70°	3.4
72.5°	3.4
75°	1.7
77.5°	1.7
80°	1.7
82.5°	0.0
85°	0.0
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)