

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: P581039

Luminaire Tested: **HCC4W05D010SL-HM40525840-41NDW**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P581039  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-3)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/9/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC4W05D010SL-HM40525840-41NDW  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" NARROW DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

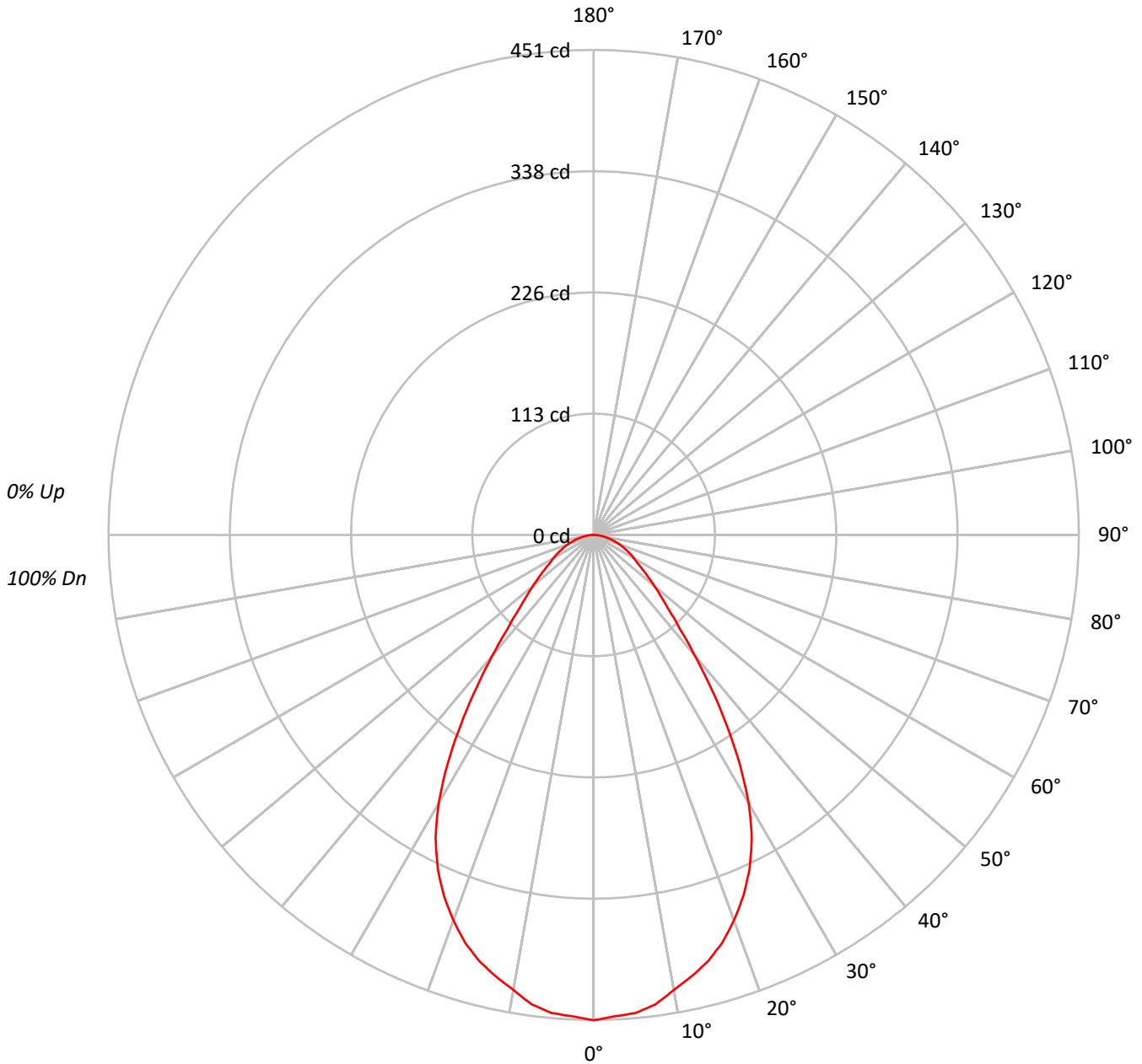
Lumens per Lamp: N/A  
Luminaire Lumens: 633.8 lumens  
Efficiency: N/A  
Efficacy: 105.6 lumens/watt  
Spacing Criteria (0/90/45): 1.03 / 1.03 / 1.01  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

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: P581039  
CATALOG NUMBER: HCC4W05D010SL-HM40525840-41NDW

### Luminous Intensity Polar Plot





TEST NUMBER: P581039  
 CATALOG NUMBER: HCC4W05D010SL-HM40525840-41NDW

**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	
1	111	108	104	101	109	105	102	100	101	99	97	98	96	94	94	92	91	89			89	
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79			79	
3	97	88	82	77	95	87	81	76	84	79	75	82	77	74	79	76	73	71			71	
4	90	81	74	68	88	80	73	68	77	72	67	75	70	66	73	69	65	64			64	
5	85	74	67	61	83	73	66	61	71	65	60	69	64	60	68	63	59	58			58	
6	79	68	61	56	78	67	60	55	66	60	55	64	59	55	63	58	54	52			52	
7	75	63	56	51	73	62	56	51	61	55	50	60	54	50	59	53	50	48			48	
8	70	59	52	47	69	58	51	46	57	51	46	56	50	46	55	50	46	44			44	
9	66	55	48	43	65	54	47	43	53	47	43	52	47	43	51	46	42	41			41	
10	63	51	44	40	62	51	44	40	50	44	40	49	43	39	48	43	39	38			38	

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

	0°
0°	55678
5°	55259
10°	53819
15°	52407
20°	50063
25°	46640
30°	41062
35°	32389
40°	23508
45°	17287
50°	14046
55°	11785
60°	10657
65°	9807
70°	9124
75°	8340
80°	7529
85°	6652



TEST NUMBER: P581039  
 CATALOG NUMBER: HCC4W05D010SL-HM40525840-41NDW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	42.1	6.6
10°-20°	115.1	18.2
20°-30°	156.0	24.6
30°-40°	133.9	21.1
40°-50°	79.1	12.5
50°-60°	50.1	7.9
60°-70°	33.6	5.3
70°-80°	18.6	2.9
80°-90°	5.2	0.8
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°	313.2	49.4
0°-40°	447.1	70.6
0°-60°	576.3	90.9
0°-90°	633.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	633.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	451	
5°	446	42
15°	410	115
25°	343	156
35°	215	134
45°	99	79
55°	55	50
65°	34	34
75°	18	19
85°	5	5
90°	0	



TEST NUMBER: P581039

CATALOG NUMBER: HCC4W05D010SL-HM40525840-41NDW

**CANDELA DISTRIBUTION (FULL):**

0°	
0°	451.4
2.5°	448.2
5°	446.3
7.5°	440.4
10°	429.7
12.5°	420.5
15°	410.4
17.5°	397.5
20°	381.4
22.5°	363.4
25°	342.7
27.5°	318.3
30°	288.3
32.5°	252.9
35°	215.1
37.5°	178.8
40°	146.0
42.5°	118.8
45°	99.1
47.5°	84.8
50°	73.2
52.5°	63.6
55°	54.8
57.5°	47.9
60°	43.2
62.5°	38.7
65°	33.6
67.5°	29.5
70°	25.3
72.5°	21.2
75°	17.5
77.5°	13.8
80°	10.6
82.5°	7.4
85°	4.7
87.5°	1.8
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)