

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: P580663

Luminaire Tested: **HCC4W40D010MW-HM43040935-41WDW**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P580663  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-9)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/9/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC4W40D010MW-HM43040935-41WDW  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

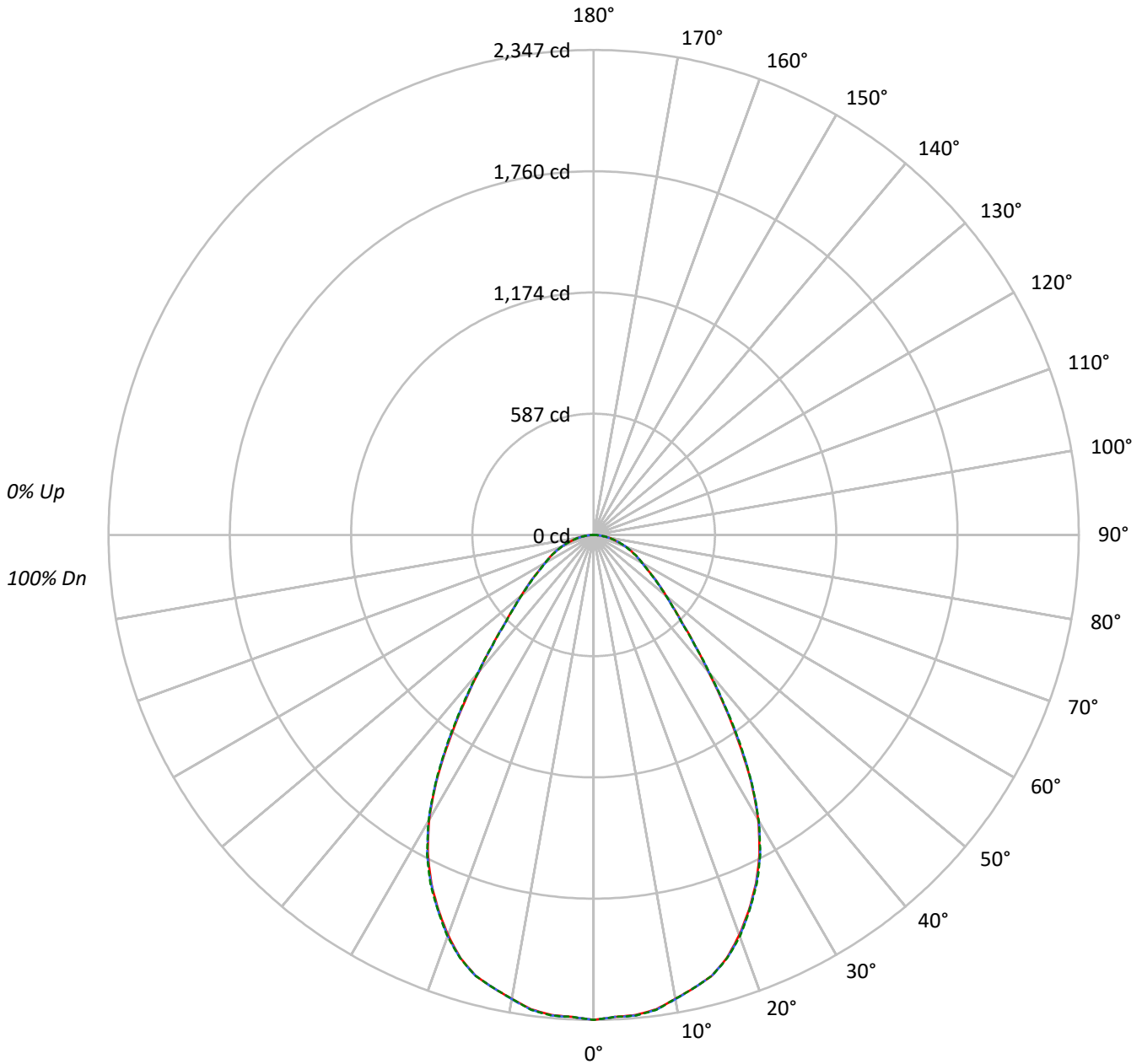
Lumens per Lamp: N/A  
Luminaire Lumens: 3621.2 lumens  
Efficiency: N/A  
Efficacy: 88.3 lumens/watt  
Spacing Criteria (0/90/45): 1.06 / 1.07 / 1.04  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 41  
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: P580663  
CATALOG NUMBER: HCC4W40D010MW-HM43040935-41WDW

### Luminous Intensity Polar Plot





TEST NUMBER: P580663

CATALOG NUMBER: HCC4W40D010MW-HM43040935-41WDW

**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	111	107	104	101	108	105	102	99	101	98	96	97	95	93	94	92	90	89																			
2	103	97	91	87	101	95	90	86	91	87	84	88	85	82	85	83	80	78																			
3	96	87	81	76	94	86	80	75	83	78	74	81	76	72	78	74	71	69																			
4	90	80	72	67	87	78	72	66	76	70	66	74	69	65	72	68	64	62																			
5	84	73	65	60	82	72	65	59	70	64	59	68	63	58	66	62	58	56																			
6	78	67	59	54	77	66	59	54	64	58	53	63	57	53	61	56	53	51																			
7	73	62	54	49	72	61	54	49	60	53	49	58	53	48	57	52	48	46																			
8	69	57	50	45	68	57	50	45	55	49	45	54	49	44	53	48	44	42																			
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	45	41	39																			
10	61	50	43	38	60	49	43	38	48	42	38	48	42	38	47	42	38	36																			

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

	0°	45°	90°
0°	289505	289505	289505
5°	288815	289100	289100
10°	285454	285754	285454
15°	282031	282031	282031
20°	270452	271082	271410
25°	252963	253303	253957
30°	226673	227357	227357
35°	184020	185496	185857
40°	138877	139666	140052
45°	106372	105971	105971
50°	87656	87176	87176
55°	75245	74707	74707
60°	67149	66533	66533
65°	63100	63100	63100
70°	58712	58712	58712
75°	53281	54424	53281
80°	50078	48302	50078
85°	41183	41183	41183



TEST NUMBER: P580663  
 CATALOG NUMBER: HCC4W40D010MW-HM43040935-41WDW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	221.1	6.1
10°-20°	618.8	17.1
20°-30°	850.4	23.5
30°-40°	764.6	21.1
40°-50°	483.1	13.3
50°-60°	315.4	8.7
60°-70°	213.7	5.9
70°-80°	120.3	3.3
80°-90°	33.7	0.9
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°	1690.4	46.7
0°-40°	2455.0	67.8
0°-60°	3253.5	89.8
0°-90°	3621.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3621.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2347	2347	2347	2347	2347	
5°	2333	2333	2335	2335	2335	221
15°	2209	2209	2209	2209	2209	618
25°	1859	1861	1861	1866	1866	848
35°	1222	1227	1232	1237	1234	761
45°	610	608	608	608	608	484
55°	350	350	347	350	347	317
65°	216	216	216	216	216	214
75°	112	114	114	114	112	120
85°	29	29	29	29	29	34
90°	0	0	0	0	0	



TEST NUMBER: P580663

CATALOG NUMBER: HCC4W40D010MW-HM43040935-41WDW

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2347.1	2347.1	2347.1	2347.1	2347.1
2.5°	2334.9	2334.9	2334.9	2334.9	2334.9
5°	2332.6	2332.6	2334.9	2334.9	2334.9
7.5°	2315.5	2318.0	2318.0	2318.0	2318.0
10°	2279.1	2279.1	2281.5	2281.5	2279.1
12.5°	2245.0	2245.0	2245.0	2247.5	2245.0
15°	2208.6	2208.6	2208.6	2208.6	2208.6
17.5°	2145.5	2147.8	2147.8	2147.8	2147.8
20°	2060.4	2065.2	2065.2	2067.7	2067.7
22.5°	1963.2	1965.7	1968.0	1970.5	1968.0
25°	1858.7	1861.2	1861.2	1866.0	1866.0
27.5°	1737.2	1739.7	1744.5	1744.5	1744.5
30°	1591.5	1593.9	1596.3	1596.3	1596.3
32.5°	1419.0	1419.0	1423.8	1426.2	1423.8
35°	1222.1	1227.0	1231.9	1236.7	1234.3
37.5°	1035.0	1040.0	1042.3	1042.3	1044.8
40°	862.5	867.4	867.4	872.3	869.8
42.5°	726.5	724.1	724.1	728.9	726.5
45°	609.8	607.5	607.5	607.5	607.5
47.5°	524.9	522.4	522.4	522.4	522.4
50°	456.8	454.3	454.3	454.3	454.3
52.5°	400.9	398.5	398.5	398.5	396.0
55°	349.9	349.9	347.4	349.9	347.4
57.5°	303.7	303.7	303.7	303.7	303.7
60°	272.2	269.7	269.7	269.7	269.7
62.5°	242.9	242.9	242.9	242.9	242.9
65°	216.2	216.2	216.2	216.2	216.2
67.5°	189.6	187.1	189.6	189.6	187.1
70°	162.8	160.4	162.8	162.8	162.8
72.5°	136.1	136.1	136.1	138.4	136.1
75°	111.8	114.2	114.2	114.2	111.8
77.5°	89.9	92.4	89.9	89.9	89.9
80°	70.5	68.0	68.0	68.0	70.5
82.5°	48.5	48.5	48.5	48.5	48.5
85°	29.1	29.1	29.1	29.1	29.1
87.5°	12.1	12.1	12.1	12.1	12.1
90°	0.0	0.0	0.0	0.0	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°    - - 45°-225°    - - - - 90°-270°

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)