

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: P580519

Luminaire Tested: **HCC4S35D010MW-HM43040935-41WDW**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P580519  
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: HCC4S35D010MW-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**

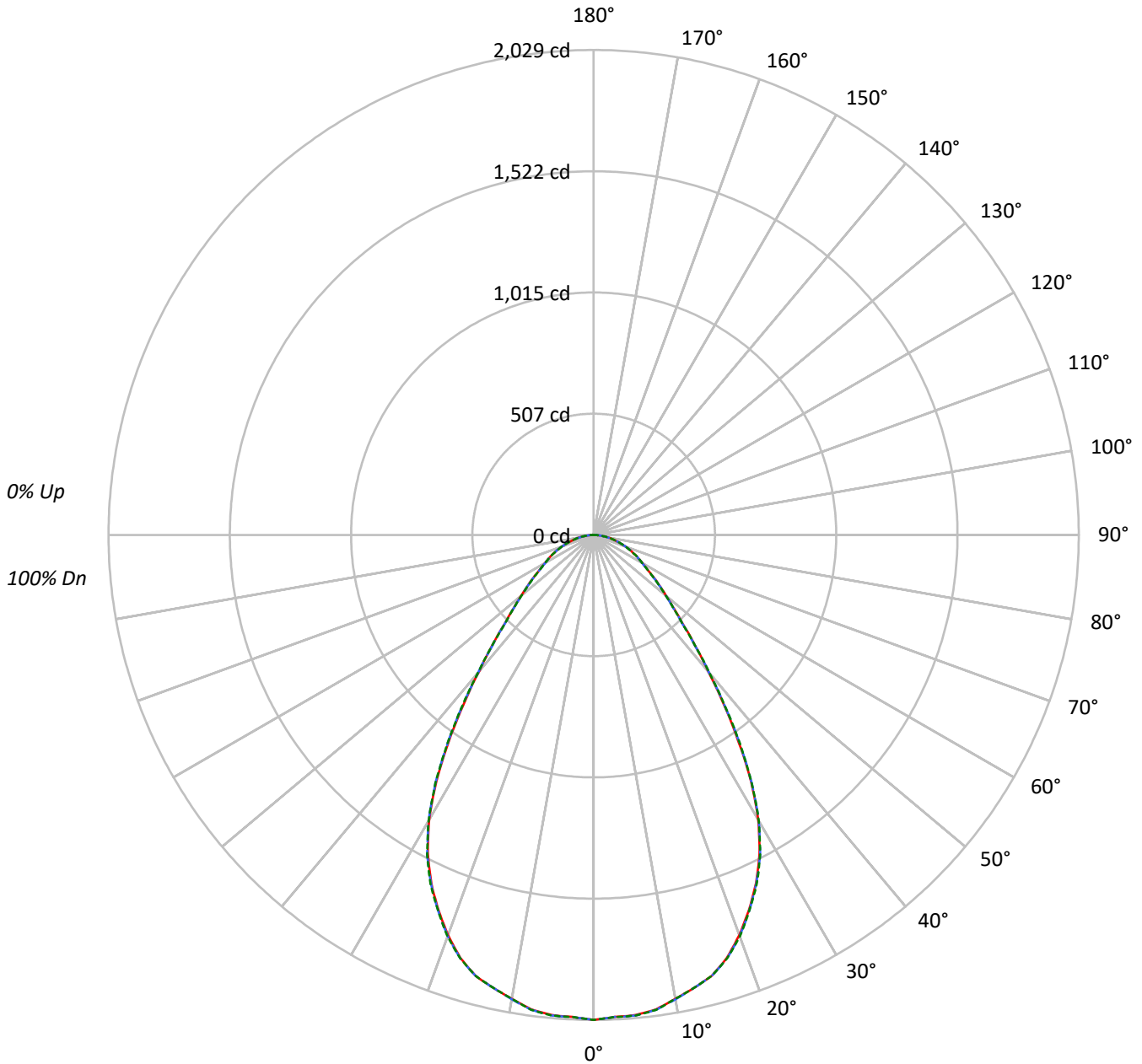
Lumens per Lamp: N/A  
Luminaire Lumens: 3130.8 lumens  
Efficiency: N/A  
Efficacy: 92.9 lumens/watt  
Spacing Criteria (0/90/45): 1.06 / 1.07 / 1.04  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 33.7  
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: P580519  
CATALOG NUMBER: HCC4S35D010MW-HM43040935-41WDW

### Luminous Intensity Polar Plot



Cooper Lighting Solutions Photometric Lab  
 1121 Highway 74 South  
 Peachtree City, GA 30269



TEST NUMBER: P580519

CATALOG NUMBER: HCC4S35D010MW-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°	250305	250305	250305
5°	249701	249949	249949
10°	246790	247053	246790
15°	243837	243837	243837
20°	233816	234381	234643
25°	218708	218993	219565
30°	195966	196578	196578
35°	159115	160365	160681
40°	120086	120746	121100
45°	91981	91597	91597
50°	75797	75375	75375
55°	65052	64600	64600
60°	58046	57504	57504
65°	54549	54549	54549
70°	50742	50742	50742
75°	46084	47038	46084
80°	43258	41767	43258
85°	35664	35664	35664



TEST NUMBER: P580519  
 CATALOG NUMBER: HCC4S35D010MW-HM43040935-41WDW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	191.2	6.1
10°-20°	535.0	17.1
20°-30°	735.2	23.5
30°-40°	661.1	21.1
40°-50°	417.7	13.3
50°-60°	272.7	8.7
60°-70°	184.7	5.9
70°-80°	104.0	3.3
80°-90°	29.2	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°	1461.4	46.7
0°-40°	2122.5	67.8
0°-60°	2812.9	89.8
0°-90°	3130.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3130.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2029	2029	2029	2029	2029	
5°	2017	2017	2019	2019	2019	191
15°	1910	1910	1910	1910	1910	535
25°	1607	1609	1609	1613	1613	733
35°	1057	1061	1065	1069	1067	658
45°	527	525	525	525	525	418
55°	302	302	300	302	300	274
65°	187	187	187	187	187	185
75°	97	99	99	99	97	104
85°	25	25	25	25	25	29
90°	0	0	0	0	0	



TEST NUMBER: P580519

CATALOG NUMBER: HCC4S35D010MW-HM43040935-41WDW

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2029.3	2029.3	2029.3	2029.3	2029.3
2.5°	2018.7	2018.7	2018.7	2018.7	2018.7
5°	2016.7	2016.7	2018.7	2018.7	2018.7
7.5°	2002.0	2004.0	2004.0	2004.0	2004.0
10°	1970.4	1970.4	1972.5	1972.5	1970.4
12.5°	1941.0	1941.0	1941.0	1943.1	1941.0
15°	1909.5	1909.5	1909.5	1909.5	1909.5
17.5°	1854.9	1857.0	1857.0	1857.0	1857.0
20°	1781.3	1785.6	1785.6	1787.6	1787.6
22.5°	1697.4	1699.5	1701.5	1703.6	1701.5
25°	1607.0	1609.1	1609.1	1613.3	1613.3
27.5°	1502.0	1504.0	1508.3	1508.3	1508.3
30°	1375.9	1378.0	1380.2	1380.2	1380.2
32.5°	1226.7	1226.7	1231.0	1233.1	1231.0
35°	1056.7	1060.8	1065.0	1069.3	1067.1
37.5°	894.9	899.1	901.2	901.2	903.2
40°	745.8	749.9	749.9	754.1	752.1
42.5°	628.1	626.0	626.0	630.2	628.1
45°	527.3	525.1	525.1	525.1	525.1
47.5°	453.8	451.6	451.6	451.6	451.6
50°	395.0	392.8	392.8	392.8	392.8
52.5°	346.6	344.5	344.5	344.5	342.4
55°	302.5	302.5	300.4	302.5	300.4
57.5°	262.6	262.6	262.6	262.6	262.6
60°	235.3	233.1	233.1	233.1	233.1
62.5°	210.1	210.1	210.1	210.1	210.1
65°	186.9	186.9	186.9	186.9	186.9
67.5°	163.9	161.7	163.9	163.9	161.7
70°	140.7	138.6	140.7	140.7	140.7
72.5°	117.7	117.7	117.7	119.7	117.7
75°	96.7	98.7	98.7	98.7	96.7
77.5°	77.7	79.8	77.7	77.7	77.7
80°	60.9	58.8	58.8	58.8	60.9
82.5°	42.0	42.0	42.0	42.0	42.0
85°	25.2	25.2	25.2	25.2	25.2
87.5°	10.5	10.5	10.5	10.5	10.5
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)