

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: P580537

Luminaire Tested: **HCC4S35D010MW-HM43040940-41WDW**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580537
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-HM43040940-41WDW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

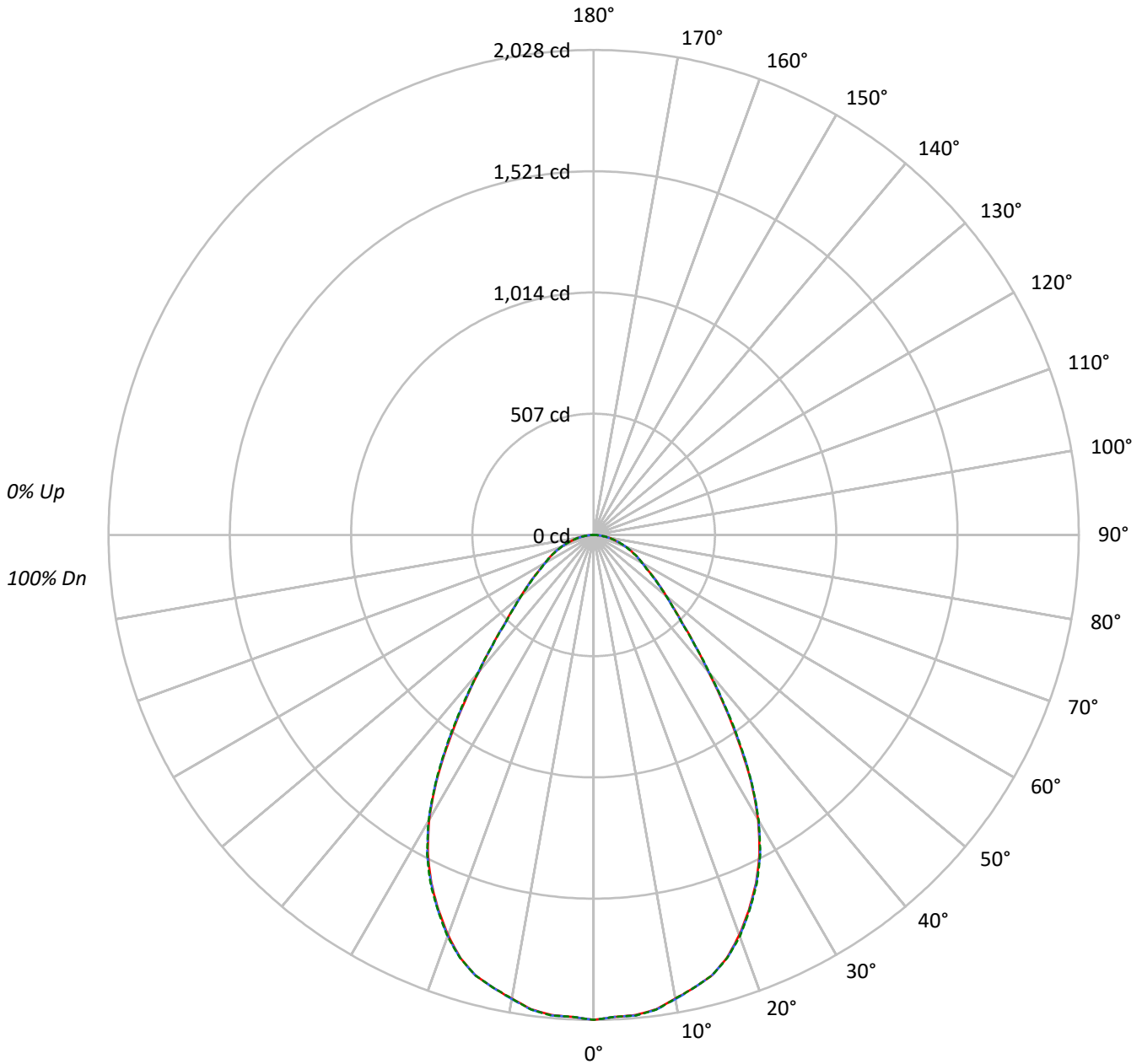
Lumens per Lamp: N/A
Luminaire Lumens: 3128.7 lumens
Efficiency: N/A
Efficacy: 92.8 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.07 / 1.04
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 33.7
Input Voltage (V): NR
Input Current (A_{in}): 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: P580537
CATALOG NUMBER: HCC4S35D010MW-HM43040940-41WDW

Luminous Intensity Polar Plot





TEST NUMBER: P580537

CATALOG NUMBER: HCC4S35D010MW-HM43040940-41WDW

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	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								
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°	250120	250120	250120
5°	249516	249763	249763
10°	246614	246890	246614
15°	243658	243658	243658
20°	233659	234197	234486
25°	218558	218844	219415
30°	195837	196421	196421
35°	158994	160259	160560
40°	119989	120666	121004
45°	91911	91545	91545
50°	75720	75318	75318
55°	64987	64557	64557
60°	57997	57479	57479
65°	54520	54520	54520
70°	50706	50706	50706
75°	46037	47038	46037
80°	43258	41767	43258
85°	35664	35664	35664



TEST NUMBER: P580537

CATALOG NUMBER: HCC4S35D010MW-HM43040940-41WDW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	191.1	6.1
10°-20°	534.6	17.1
20°-30°	734.7	23.5
30°-40°	660.6	21.1
40°-50°	417.4	13.3
50°-60°	272.5	8.7
60°-70°	184.6	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°	1460.4	46.7
0°-40°	2121.0	67.8
0°-60°	2810.8	89.8
0°-90°	3128.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3128.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2028	2028	2028	2028	2028	
5°	2015	2015	2017	2017	2017	191
15°	1908	1908	1908	1908	1908	534
25°	1606	1608	1608	1612	1612	733
35°	1056	1060	1064	1068	1066	657
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: P580537

CATALOG NUMBER: HCC4S35D010MW-HM43040940-41WDW

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2027.8	2027.8	2027.8	2027.8	2027.8
2.5°	2017.2	2017.2	2017.2	2017.2	2017.2
5°	2015.2	2015.2	2017.2	2017.2	2017.2
7.5°	2000.5	2002.6	2002.6	2002.6	2002.6
10°	1969.0	1969.0	1971.2	1971.2	1969.0
12.5°	1939.6	1939.6	1939.6	1941.7	1939.6
15°	1908.1	1908.1	1908.1	1908.1	1908.1
17.5°	1853.6	1855.6	1855.6	1855.6	1855.6
20°	1780.1	1784.2	1784.2	1786.4	1786.4
22.5°	1696.1	1698.3	1700.3	1702.4	1700.3
25°	1605.9	1608.0	1608.0	1612.2	1612.2
27.5°	1500.9	1503.0	1507.2	1507.2	1507.2
30°	1375.0	1377.0	1379.1	1379.1	1379.1
32.5°	1225.9	1225.9	1230.1	1232.2	1230.1
35°	1055.9	1060.0	1064.3	1068.5	1066.3
37.5°	894.3	898.4	900.5	900.5	902.7
40°	745.2	749.4	749.4	753.6	751.5
42.5°	627.6	625.5	625.5	629.8	627.6
45°	526.9	524.8	524.8	524.8	524.8
47.5°	453.4	451.3	451.3	451.3	451.3
50°	394.6	392.5	392.5	392.5	392.5
52.5°	346.4	344.3	344.3	344.3	342.1
55°	302.2	302.2	300.2	302.2	300.2
57.5°	262.3	262.3	262.3	262.3	262.3
60°	235.1	233.0	233.0	233.0	233.0
62.5°	210.0	210.0	210.0	210.0	210.0
65°	186.8	186.8	186.8	186.8	186.8
67.5°	163.8	161.6	163.8	163.8	161.6
70°	140.6	138.6	140.6	140.6	140.6
72.5°	117.6	117.6	117.6	119.7	117.6
75°	96.6	98.7	98.7	98.7	96.6
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)