

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: P580426

Luminaire Tested: **HCC4S35D010MB-HM43040830-41MDW**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P580426  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-6)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/9/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC4S35D010MB-HM43040830-41MDW  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" MEDIUM DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

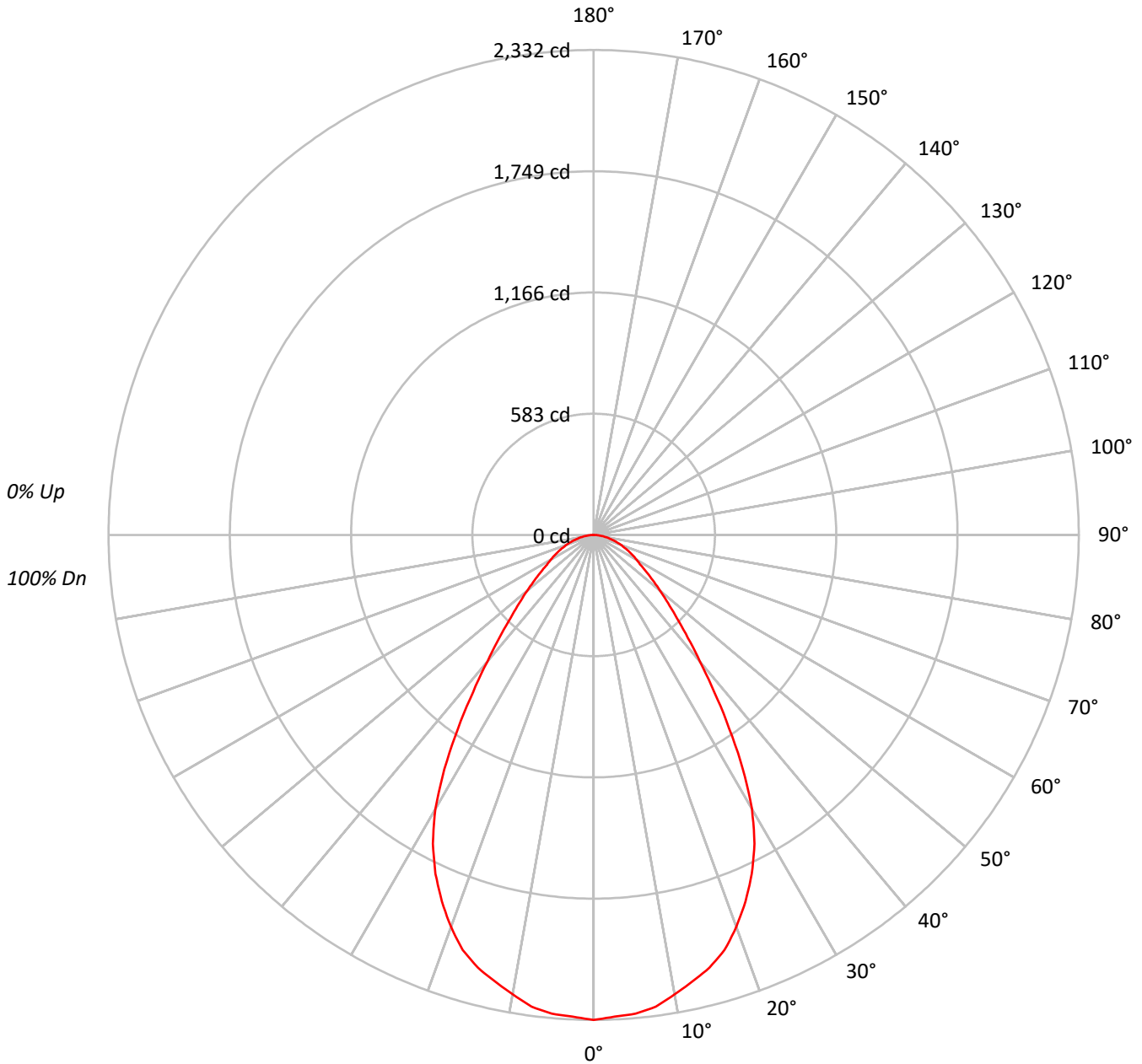
Lumens per Lamp: N/A  
Luminaire Lumens: 3393.5 lumens  
Efficiency: N/A  
Efficacy: 100.7 lumens/watt  
Spacing Criteria (0/90/45): 1.04 / 1.04 / 1.01  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

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: P580426  
CATALOG NUMBER: HCC4S35D010MB-HM43040830-41MDW

### Luminous Intensity Polar Plot





TEST NUMBER: P580426

CATALOG NUMBER: HCC4S35D010MB-HM43040830-41MDW

**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	108	104	101	109	105	102	100	101	99	97	97	95	94	94	92	91	89																			
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79																			
3	97	88	82	76	94	87	81	76	84	79	75	81	77	73	79	75	72	70																			
4	90	80	73	68	88	79	73	67	77	71	67	75	70	66	73	68	65	63																			
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	63	59	57																			
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	54	52																			
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47																			
8	70	58	51	46	68	58	51	46	56	50	46	55	50	45	54	49	45	44																			
9	66	54	47	42	65	54	47	42	53	46	42	52	46	42	51	46	42	40																			
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37																			

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

	0°
0°	287704
5°	286178
10°	280957
15°	275033
20°	263272
25°	244797
30°	216675
35°	171011
40°	127976
45°	98452
50°	79865
55°	66234
60°	58589
65°	54228
70°	50021
75°	45941
80°	41767
85°	33258



TEST NUMBER: P580426  
 CATALOG NUMBER: HCC4S35D010MB-HM43040830-41MDW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	218.5	6.4
10°-20°	604.0	17.8
20°-30°	820.1	24.2
30°-40°	710.4	20.9
40°-50°	446.0	13.1
50°-60°	280.6	8.3
60°-70°	184.3	5.4
70°-80°	101.7	3.0
80°-90°	27.8	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°	1642.7	48.4
0°-40°	2353.1	69.3
0°-60°	3079.7	90.8
0°-90°	3393.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3393.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2332	
5°	2311	219
15°	2154	604
25°	1799	820
35°	1136	710
45°	564	446
55°	308	281
65°	186	184
75°	96	102
85°	24	28
90°	0	



TEST NUMBER: P580426  
CATALOG NUMBER: HCC4S35D010MB-HM43040830-41MDW

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2332.5
2.5°	2318.4
5°	2311.3
7.5°	2287.8
10°	2243.2
12.5°	2198.4
15°	2153.8
17.5°	2092.7
20°	2005.7
22.5°	1906.9
25°	1798.7
27.5°	1674.1
30°	1521.3
32.5°	1335.5
35°	1135.7
37.5°	952.3
40°	794.8
42.5°	670.1
45°	564.4
47.5°	484.3
50°	416.2
52.5°	357.4
55°	308.0
57.5°	265.7
60°	237.5
62.5°	211.6
65°	185.8
67.5°	159.8
70°	138.7
72.5°	115.2
75°	96.4
77.5°	75.2
80°	58.8
82.5°	40.0
85°	23.5
87.5°	9.4
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)