

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: P593731

Luminaire Tested: **HCC8S40D010MW-HM82555850-81WDW**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P593731  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-9)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 10/21/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC8S40D010MW-HM82555850-81WDW  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

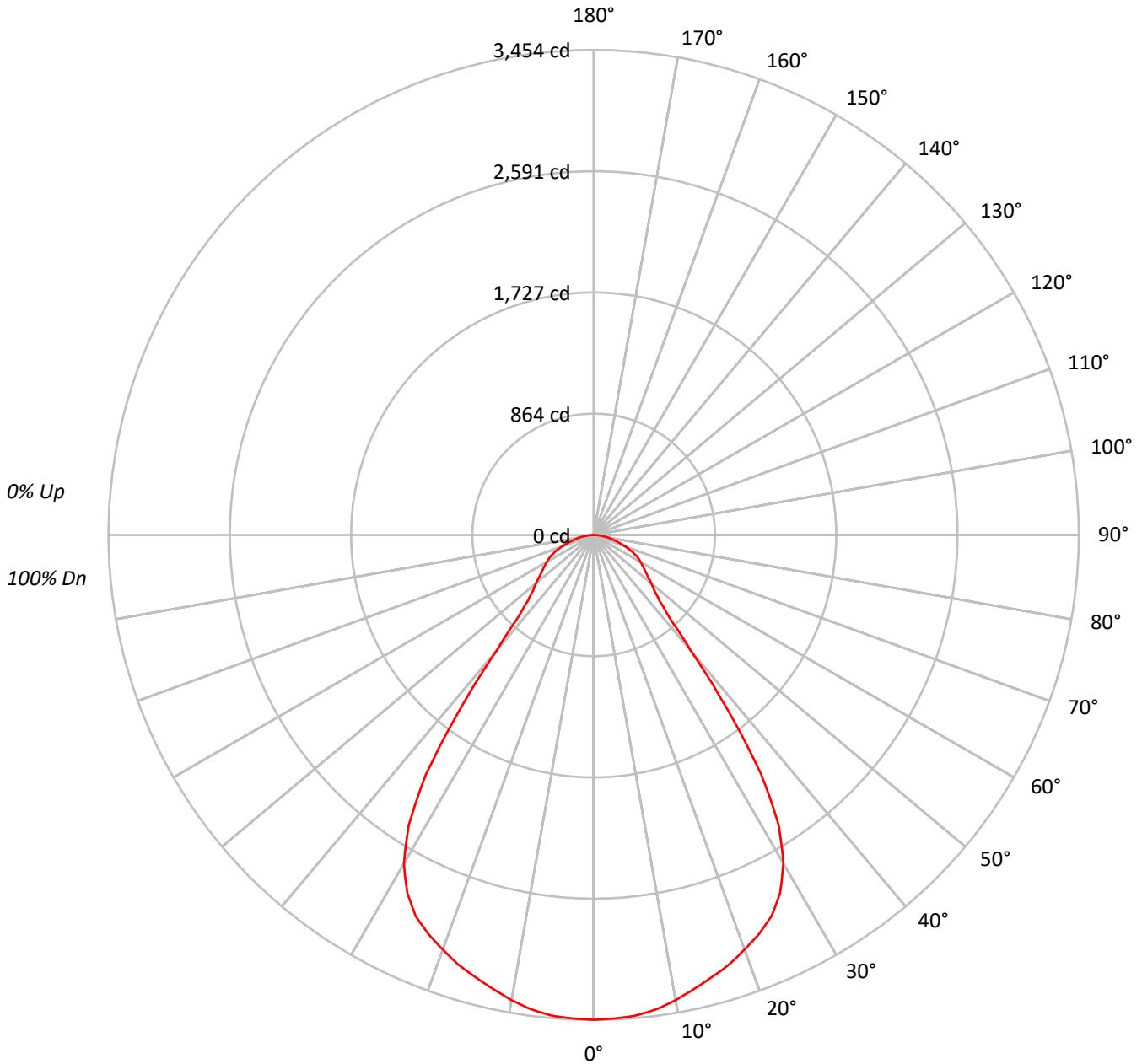
Lumens per Lamp: N/A  
Luminaire Lumens: 5327.3 lumens  
Efficiency: N/A  
Efficacy: 129.9 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.06  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

Input Watts (W): 41  
Input Voltage (V): NR  
Input Current (Ain): 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: P593731  
CATALOG NUMBER: HCC8S40D010MW-HM82555850-81WDW

### Luminous Intensity Polar Plot





TEST NUMBER: P593731

CATALOG NUMBER: HCC8S40D010MW-HM82555850-81WDW

**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
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	96	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	61	55	77	67	60	55	65	59	55	64	58	54	62	58	54	52		
7	74	63	56	50	73	62	55	50	61	54	50	59	54	50	58	53	49	48		
8	70	58	51	46	69	58	51	46	57	50	46	55	50	46	54	49	45	44		
9	66	54	47	43	65	54	47	42	53	47	42	52	46	42	51	46	42	40		
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	37		

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

	0°
0°	106506
5°	106374
10°	105324
15°	104060
20°	103096
25°	101940
30°	96184
35°	78322
40°	43273
45°	28887
50°	25622
55°	24048
60°	23744
65°	23531
70°	21269
75°	19003
80°	16639
85°	14718



TEST NUMBER: P593731  
 CATALOG NUMBER: HCC8S40D010MW-HM82555850-81WDW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	325.7	6.1
10°-20°	920.4	17.3
20°-30°	1367.6	25.7
30°-40°	1231.6	23.1
40°-50°	546.0	10.2
50°-60°	404.4	7.6
60°-70°	314.4	5.9
70°-80°	170.5	3.2
80°-90°	46.7	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°	2613.7	49.1
0°-40°	3845.3	72.2
0°-60°	4795.7	90.0
0°-90°	5327.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5327.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3454	
5°	3436	326
15°	3260	920
25°	2996	1368
35°	2081	1232
45°	662	546
55°	447	404
65°	322	314
75°	160	171
85°	42	47
90°	0	



TEST NUMBER: P593731  
CATALOG NUMBER: HCC8S40D010MW-HM82555850-81WDW

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3453.9
2.5°	3447.0
5°	3436.5
7.5°	3408.8
10°	3363.7
12.5°	3311.7
15°	3259.6
17.5°	3207.6
20°	3141.7
22.5°	3075.9
25°	2996.1
27.5°	2874.7
30°	2701.3
32.5°	2451.6
35°	2080.6
37.5°	1553.5
40°	1075.0
42.5°	794.1
45°	662.4
47.5°	586.1
50°	534.1
52.5°	485.5
55°	447.3
57.5°	416.1
60°	385.0
62.5°	357.1
65°	322.5
67.5°	280.8
70°	235.9
72.5°	197.7
75°	159.5
77.5°	124.8
80°	93.7
82.5°	65.9
85°	41.6
87.5°	17.4
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)