

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: P593829

Luminaire Tested: **HCC8S55D010MB-HM82555850-81WDC**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P593829  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-7)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 10/21/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC8S55D010MB-HM82555850-81WDC  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, SPECULAR TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

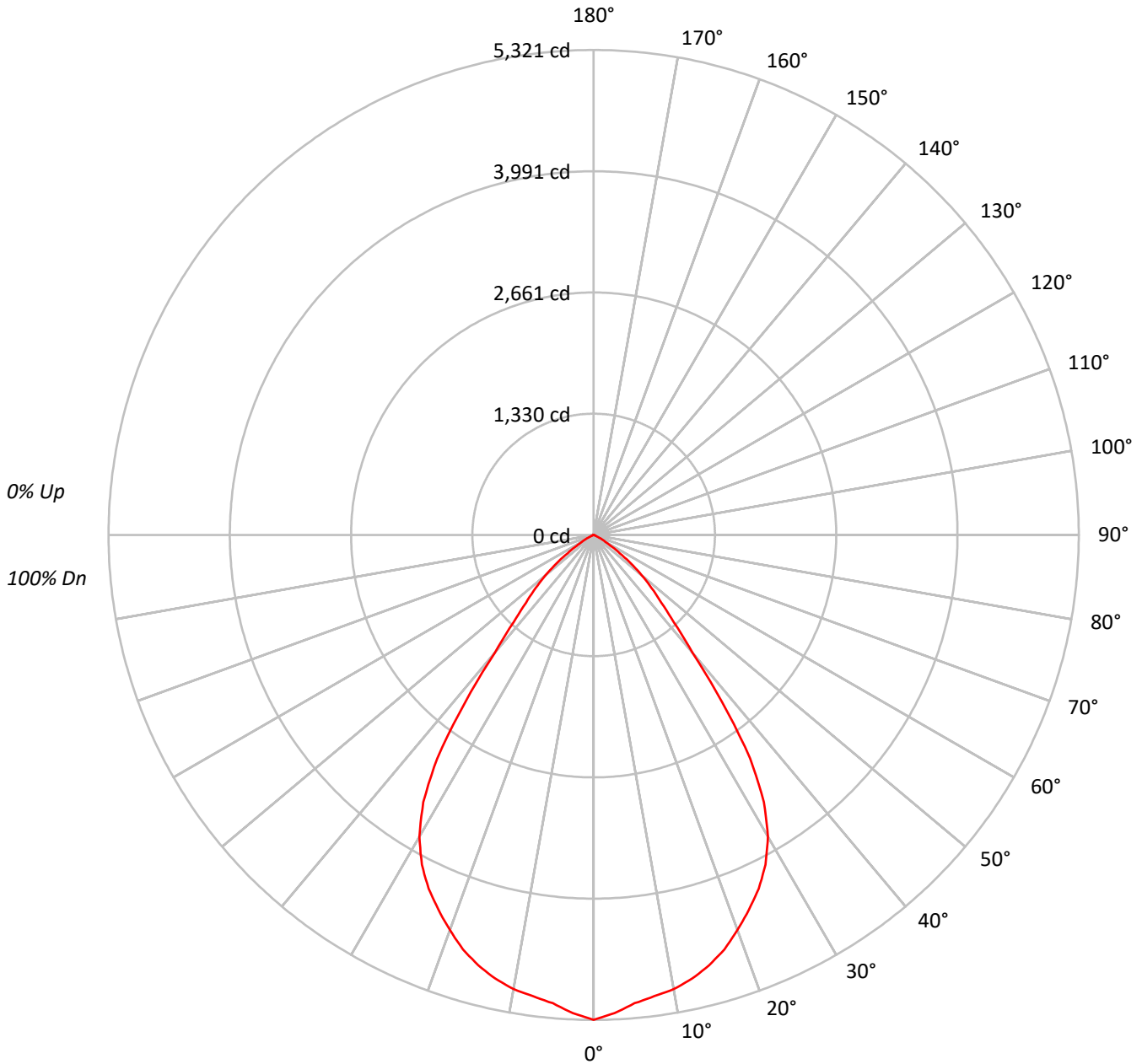
Lumens per Lamp: N/A  
Luminaire Lumens: 6838.8 lumens  
Efficiency: N/A  
Efficacy: 131.5 lumens/watt  
Spacing Criteria (0/90/45): 1.1 / 1.1 / 1.05  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

Input Watts (W): 52  
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: P593829  
CATALOG NUMBER: HCC8S55D010MB-HM82555850-81WDC

### Luminous Intensity Polar Plot





TEST NUMBER: P593829  
 CATALOG NUMBER: HCC8S55D010MB-HM82555850-81WDC

**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	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	113	110	107	105	110	108	105	103	104	102	100	100	98	97	96	95	94	92																																				
2	106	101	96	93	104	99	95	92	96	92	90	93	90	88	90	88	86	84																																				
3	100	93	87	83	98	91	86	82	89	84	81	86	83	79	84	81	78	77																																				
4	94	86	79	75	92	84	79	74	82	77	73	80	76	72	78	75	71	70																																				
5	88	79	72	68	87	78	72	67	76	71	67	74	70	66	73	69	65	64																																				
6	83	73	66	62	82	72	66	61	71	65	61	69	64	61	68	64	60	59																																				
7	78	68	61	57	77	67	61	56	66	60	56	65	60	56	63	59	55	54																																				
8	74	63	57	52	73	63	56	52	62	56	52	60	55	51	59	55	51	50																																				
9	70	59	53	48	69	59	52	48	58	52	48	57	51	48	56	51	47	46																																				
10	66	55	49	45	65	55	49	45	54	48	44	53	48	44	52	48	44	43																																				

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

	0°
0°	164077
5°	159664
10°	158448
15°	156087
20°	151361
25°	145715
30°	136114
35°	112639
40°	68005
45°	45803
50°	33005
55°	18822
60°	8283
65°	2970
70°	1100
75°	488
80°	0
85°	0



TEST NUMBER: P593829  
 CATALOG NUMBER: HCC8S55D010MB-HM82555850-81WDC

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	490.0	7.2
10°-20°	1374.1	20.1
20°-30°	1960.1	28.7
30°-40°	1784.9	26.1
40°-50°	842.0	12.3
50°-60°	331.1	4.8
60°-70°	52.8	0.8
70°-80°	3.7	0.1
80°-90°	0.0	0.0
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°	3824.3	55.9
0°-40°	5609.2	82.0
0°-60°	6782.3	99.2
0°-90°	6838.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6838.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	5321	
5°	5158	490
15°	4889	1374
25°	4283	1960
35°	2992	1785
45°	1050	842
55°	350	331
65°	41	53
75°	4	4
85°	0	0
90°	0	



TEST NUMBER: P593829  
CATALOG NUMBER: HCC8S55D010MB-HM82555850-81WDC

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	5320.9
2.5°	5251.7
5°	5158.1
7.5°	5105.1
10°	5060.3
12.5°	4987.1
15°	4889.3
17.5°	4767.2
20°	4612.5
22.5°	4449.7
25°	4282.7
27.5°	4079.3
30°	3822.7
32.5°	3476.7
35°	2992.2
37.5°	2312.4
40°	1689.4
42.5°	1298.7
45°	1050.3
47.5°	863.1
50°	688.0
52.5°	517.0
55°	350.1
57.5°	219.9
60°	134.3
62.5°	81.5
65°	40.7
67.5°	20.4
70°	12.2
72.5°	4.1
75°	4.1
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
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)