

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: P583984

Luminaire Tested: **HCC8S20D010SL-HM80520830-81MDC**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P583984  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-4)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 10/21/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC8S20D010SL-HM80520830-81MDC  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" MEDIUM DISTRIBUTION, SPECULAR TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

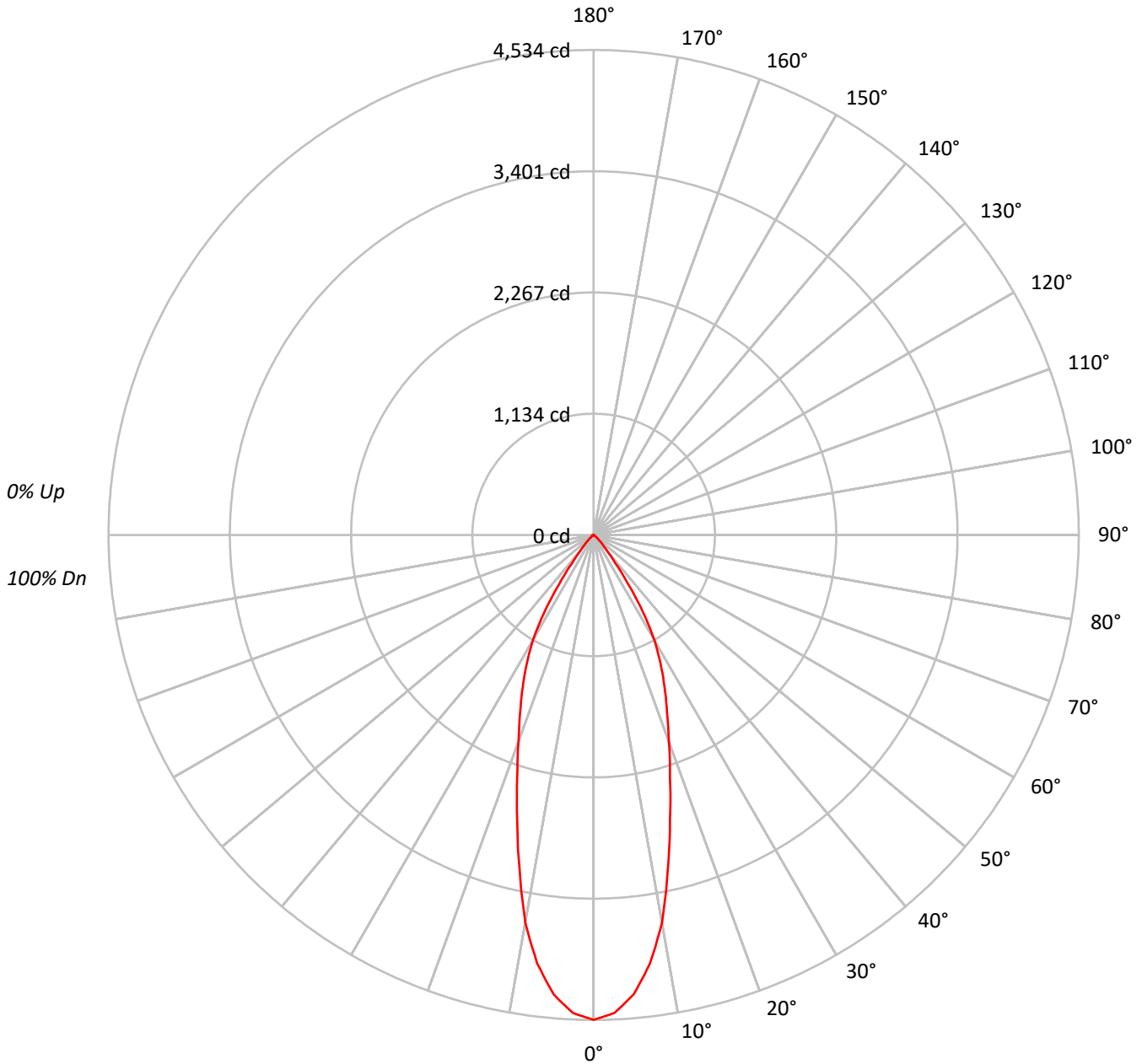
Lumens per Lamp: N/A  
Luminaire Lumens: 2339.9 lumens  
Efficiency: N/A  
Efficacy: 117.0 lumens/watt  
Spacing Criteria (0/90/45): 0.58 / 0.58 / 0.67  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

Input Watts (W): 20  
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: P583984  
CATALOG NUMBER: HCC8S20D010SL-HM80520830-81MDC

### Luminous Intensity Polar Plot





TEST NUMBER: P583984

CATALOG NUMBER: HCC8S20D010SL-HM80520830-81MDC

**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	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			
1	114	111	109	107	112	109	107	105	105	104	102	102	100	99	98	97	96	95			
2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	92	91	89			
3	104	98	94	90	102	97	93	90	94	91	88	92	89	87	90	87	85	84			
4	100	93	88	84	98	92	87	83	90	86	82	88	84	82	86	83	81	79			
5	95	88	82	78	94	87	82	78	85	81	77	83	80	77	82	79	76	75			
6	91	83	78	74	90	82	77	73	81	76	73	79	76	73	78	75	72	71			
7	87	79	73	70	86	78	73	69	77	72	69	76	72	69	75	71	68	67			
8	84	75	70	66	82	74	69	66	73	69	65	72	68	65	71	68	65	64			
9	80	71	66	62	79	71	66	62	70	65	62	69	65	62	68	65	62	61			
10	77	68	63	59	76	68	63	59	67	62	59	66	62	59	65	62	59	58			

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

	0°
0°	139803
5°	133387
10°	115162
15°	88059
20°	67380
25°	53306
30°	40268
35°	21420
40°	8159
45°	3916
50°	1669
55°	699
60°	271
65°	219
70°	126
75°	0
80°	0
85°	0



TEST NUMBER: P583984  
 CATALOG NUMBER: HCC8S20D010SL-HM80520830-81MDC

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	391.2	16.7
10°-20°	770.1	32.9
20°-30°	717.2	30.7
30°-40°	370.1	15.8
40°-50°	75.4	3.2
50°-60°	12.9	0.6
60°-70°	2.5	0.1
70°-80°	0.5	0.0
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°	1878.4	80.3
0°-40°	2248.5	96.1
0°-60°	2336.8	99.9
0°-90°	2339.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2339.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4534	
5°	4309	391
15°	2758	770
25°	1567	717
35°	569	370
45°	90	75
55°	13	13
65°	3	3
75°	0	1
85°	0	0
90°	0	



TEST NUMBER: P583984  
CATALOG NUMBER: HCC8S20D010SL-HM80520830-81MDC

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	4533.7
2.5°	4472.8
5°	4309.2
7.5°	4039.8
10°	3677.9
12.5°	3203.0
15°	2758.4
17.5°	2373.2
20°	2053.3
22.5°	1792.6
25°	1566.7
27.5°	1352.4
30°	1130.9
32.5°	867.4
35°	569.0
37.5°	330.1
40°	202.7
42.5°	133.2
45°	89.8
47.5°	56.5
50°	34.8
52.5°	20.3
55°	13.0
57.5°	5.8
60°	4.4
62.5°	3.0
65°	3.0
67.5°	1.4
70°	1.4
72.5°	1.4
75°	0.0
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)