

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: P583871

Luminaire Tested: **HCC8S15D010SL-HM80520835-81PSMDW**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P583871  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-12)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 10/21/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC8S15D010SL-HM80520835-81PSMDW  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" PLASTIC TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

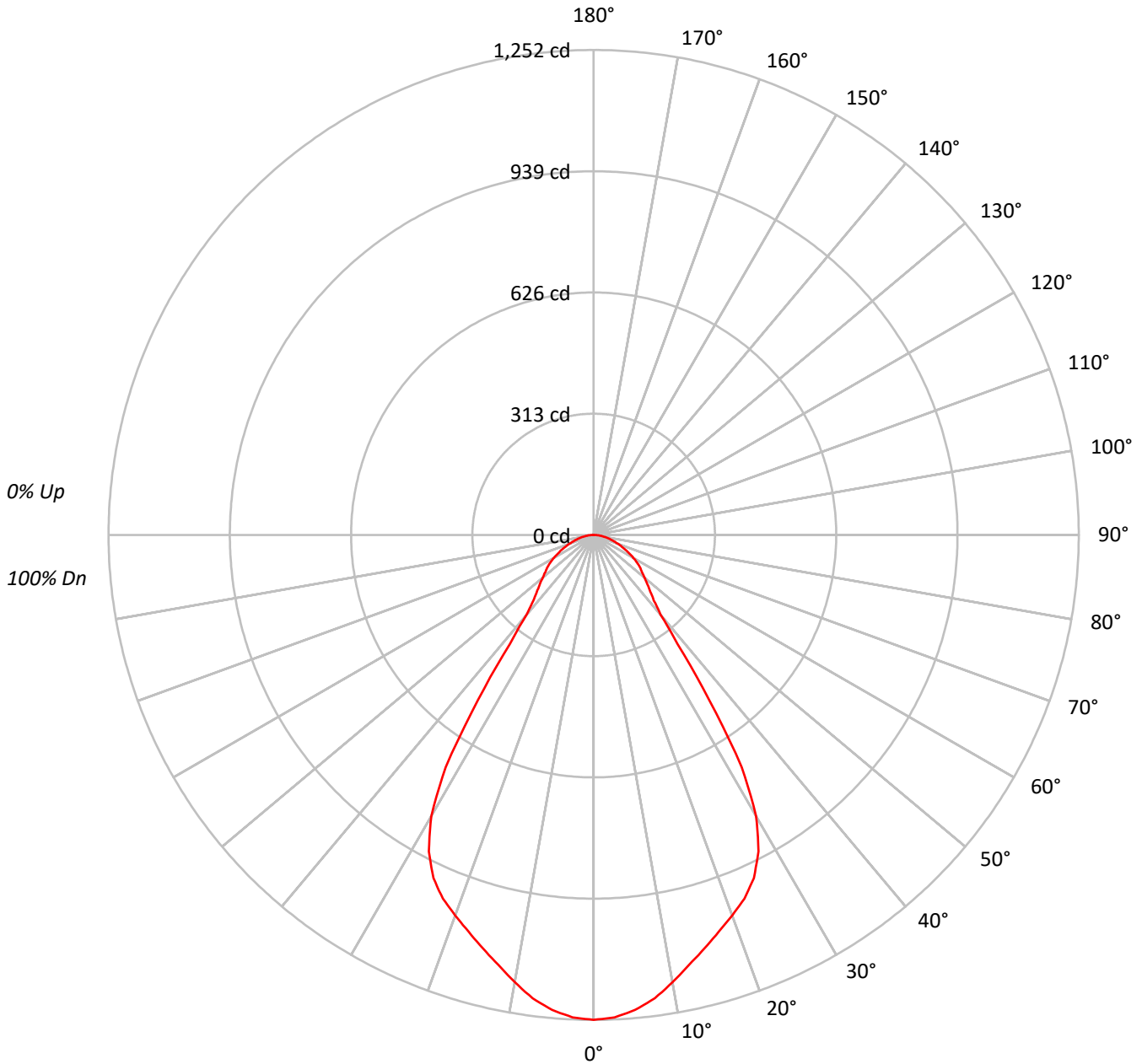
Lumens per Lamp: N/A  
Luminaire Lumens: 1644.7 lumens  
Efficiency: N/A  
Efficacy: 117.5 lumens/watt  
Spacing Criteria (0/90/45): 1.06 / 1.06 / 0.97  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

Input Watts (W): 14  
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: P583871  
CATALOG NUMBER: HCC8S15D010SL-HM80520835-81PSMDW

### Luminous Intensity Polar Plot





TEST NUMBER: P583871  
 CATALOG NUMBER: HCC8S15D010SL-HM80520835-81PSMDW

**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	105	102	109	106	103	100	101	99	97	98	96	94	94	93	91	89																			
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79																			
3	97	89	83	77	95	87	82	77	85	80	76	82	78	74	80	76	73	71																			
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	70	66	64																			
5	85	75	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58																			
6	80	69	62	57	78	68	61	56	67	61	56	65	60	56	64	59	55	53																			
7	75	64	57	52	74	63	57	52	62	56	51	61	55	51	60	55	51	49																			
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	45																			
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42																			
10	64	52	46	41	62	52	45	41	51	45	41	50	45	41	49	44	41	39																			

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

	0°
0°	38607
5°	38105
10°	36707
15°	35273
20°	34299
25°	33265
30°	29849
35°	19567
40°	10816
45°	9018
50°	8227
55°	7849
60°	7296
65°	6618
70°	5987
75°	5397
80°	4901
85°	4706



TEST NUMBER: P583871  
 CATALOG NUMBER: HCC8S15D010SL-HM80520835-81PSMDW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	115.7	7.0
10°-20°	311.7	19.0
20°-30°	443.6	27.0
30°-40°	328.3	20.0
40°-50°	162.6	9.9
50°-60°	129.8	7.9
60°-70°	90.1	5.5
70°-80°	48.5	3.0
80°-90°	14.3	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°	871.0	53.0
0°-40°	1199.3	72.9
0°-60°	1491.7	90.7
0°-90°	1644.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1644.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1252	
5°	1231	116
15°	1105	312
25°	978	444
35°	520	328
45°	207	163
55°	146	130
65°	91	90
75°	45	49
85°	13	14
90°	0	



TEST NUMBER: P583871  
CATALOG NUMBER: HCC8S15D010SL-HM80520835-81PSMDW

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1252.0
2.5°	1246.5
5°	1231.0
7.5°	1206.7
10°	1172.3
12.5°	1137.0
15°	1104.9
17.5°	1073.9
20°	1045.2
22.5°	1016.4
25°	977.7
27.5°	921.3
30°	838.3
32.5°	711.2
35°	519.8
37.5°	355.0
40°	268.7
42.5°	230.0
45°	206.8
47.5°	188.0
50°	171.5
52.5°	157.0
55°	146.0
57.5°	132.7
60°	118.3
62.5°	104.0
65°	90.7
67.5°	77.5
70°	66.4
72.5°	55.3
75°	45.3
77.5°	36.5
80°	27.6
82.5°	19.9
85°	13.3
87.5°	5.5
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)