

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: P583877

Luminaire Tested: **HCC8S15D010BZ-HM80520835-81WDW**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P583877  
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: HCC8S15D010BZ-HM80520835-81WDW  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

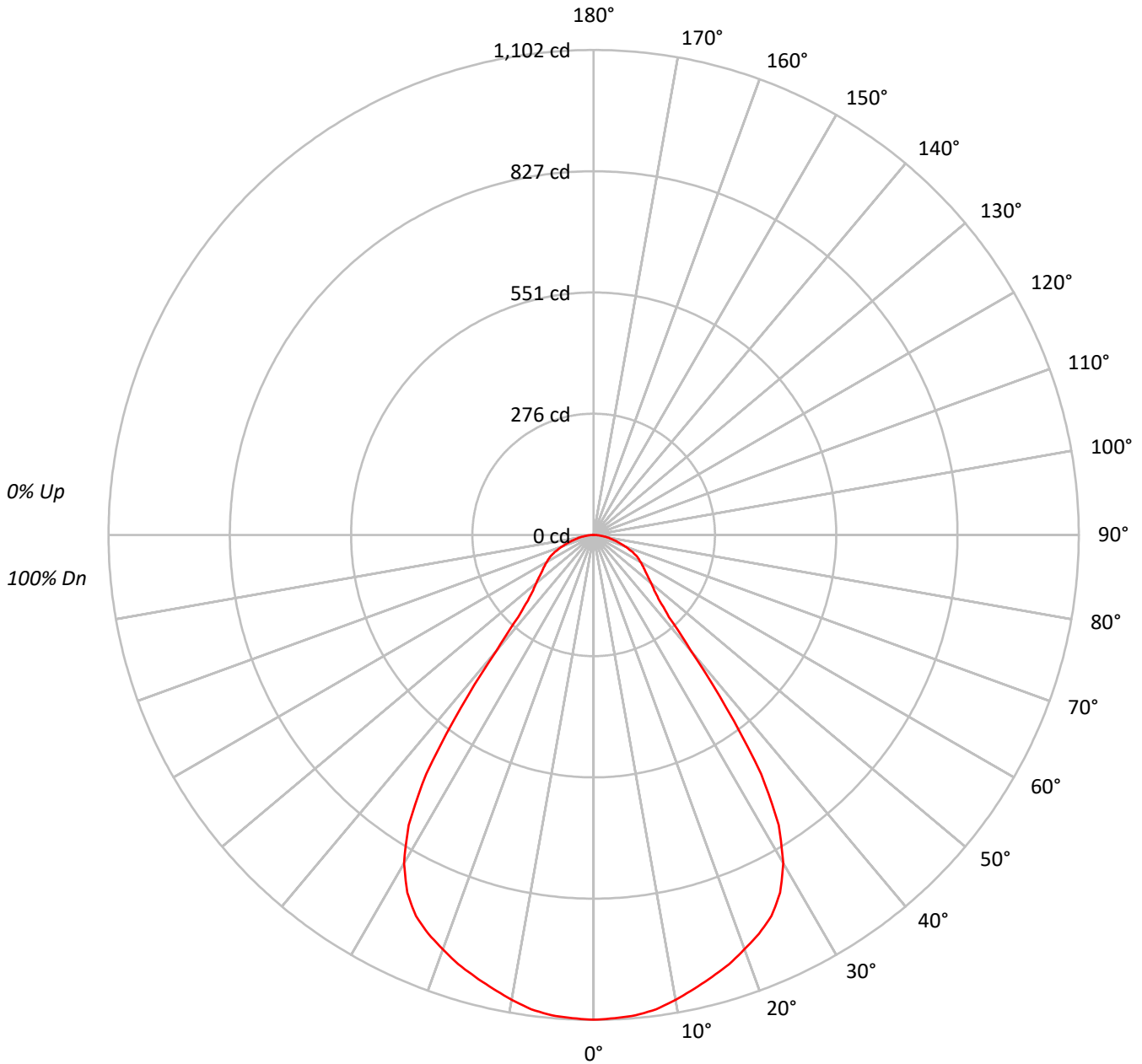
Lumens per Lamp: N/A  
Luminaire Lumens: 1699.0 lumens  
Efficiency: N/A  
Efficacy: 121.4 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.06  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

Input Watts (W): 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: P583877  
CATALOG NUMBER: HCC8S15D010BZ-HM80520835-81WDW

### Luminous Intensity Polar Plot





TEST NUMBER: P583877

CATALOG NUMBER: HCC8S15D010BZ-HM80520835-81WDW

**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	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			100
1	111	108	104	101	109	105	102	100	101	99	96	97	95	94	94	92	91	89			89
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79			79
3	97	88	82	76	94	87	81	76	84	79	75	81	77	73	79	75	72	70			70
4	90	80	73	68	88	79	73	67	77	71	67	75	70	66	73	68	65	63			63
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	63	59	57			57
6	79	68	61	55	77	67	60	55	65	59	55	64	58	54	62	58	54	52			52
7	74	63	56	50	73	62	55	50	61	54	50	59	54	50	58	53	49	48			48
8	70	58	51	46	69	58	51	46	57	50	46	55	50	46	54	49	45	44			44
9	66	54	47	43	65	54	47	42	53	47	42	52	46	42	51	46	42	40			40
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	37			37

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

	0°
0°	33966
5°	33923
10°	33588
15°	33188
20°	32881
25°	32513
30°	30675
35°	24981
40°	13799
45°	9210
50°	8170
55°	7672
60°	7573
65°	7508
70°	6780
75°	6064
80°	5310
85°	4706



TEST NUMBER: P583877  
 CATALOG NUMBER: HCC8S15D010BZ-HM80520835-81WDW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	103.9	6.1
10°-20°	293.5	17.3
20°-30°	436.2	25.7
30°-40°	392.8	23.1
40°-50°	174.1	10.2
50°-60°	129.0	7.6
60°-70°	100.3	5.9
70°-80°	54.4	3.2
80°-90°	14.9	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°	833.6	49.1
0°-40°	1226.4	72.2
0°-60°	1529.5	90.0
0°-90°	1699.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1699.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1102	
5°	1096	104
15°	1040	294
25°	956	436
35°	664	393
45°	211	174
55°	143	129
65°	103	100
75°	51	54
85°	13	15
90°	0	



TEST NUMBER: P583877  
CATALOG NUMBER: HCC8S15D010BZ-HM80520835-81WDW

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1101.5
2.5°	1099.3
5°	1095.9
7.5°	1087.2
10°	1072.7
12.5°	1056.2
15°	1039.6
17.5°	1022.9
20°	1002.0
22.5°	981.0
25°	955.6
27.5°	916.8
30°	861.5
32.5°	781.9
35°	663.6
37.5°	495.5
40°	342.8
42.5°	253.3
45°	211.2
47.5°	186.9
50°	170.3
52.5°	154.8
55°	142.7
57.5°	132.7
60°	122.8
62.5°	113.9
65°	102.9
67.5°	89.5
70°	75.2
72.5°	63.0
75°	50.9
77.5°	39.8
80°	29.9
82.5°	21.0
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)