

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: P583803

Luminaire Tested: **HCC8W10D010BZ-HM80520935-81PSMDW**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P583803  
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: HCC8W10D010BZ-HM80520935-81PSMDW  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" PLASTIC TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

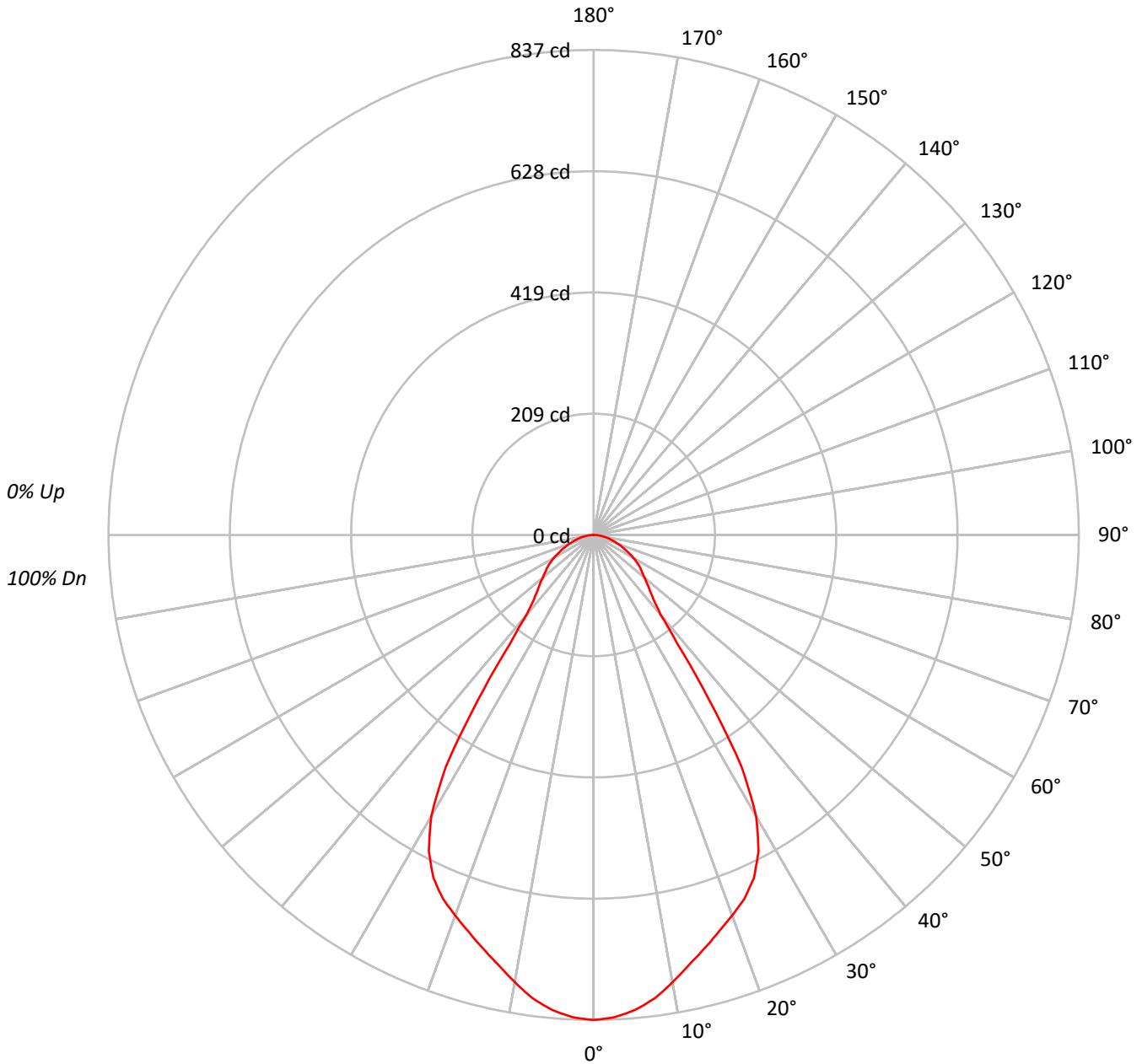
Lumens per Lamp: N/A  
Luminaire Lumens: 1099.7 lumens  
Efficiency: N/A  
Efficacy: 111.1 lumens/watt  
Spacing Criteria (0/90/45): 1.06 / 1.06 / 0.97  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

Input Watts (W): 9.9  
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: P583803  
CATALOG NUMBER: HCC8W10D010BZ-HM80520935-81PSMDW

### Luminous Intensity Polar Plot





TEST NUMBER: P583803

CATALOG NUMBER: HCC8W10D010BZ-HM80520935-81PSMDW

**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	100	100
1	111	108	105	102	109	106	103	100	101	99	97	98	96	94	94	93	91	89	89	89	89
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79	79	79	79
3	97	89	83	77	95	87	82	77	85	80	76	82	78	74	80	76	73	71	71	71	71
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	70	66	64	64	64	64
5	85	75	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58	58	58	58
6	80	69	62	57	78	68	61	56	67	61	56	65	60	56	64	59	55	53	53	53	53
7	75	64	57	52	74	63	57	52	62	56	51	61	55	51	60	55	51	49	49	49	49
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	45	45	45	45
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42	42	42	42
10	64	52	46	41	62	52	45	41	51	45	41	50	45	41	49	44	41	39	39	39	39

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

	0°
0°	25813
5°	25475
10°	24542
15°	23582
20°	22931
25°	22238
30°	19958
35°	13081
40°	7234
45°	6027
50°	5502
55°	5247
60°	4878
65°	4422
70°	4003
75°	3610
80°	3285
85°	3149



TEST NUMBER: P583803  
 CATALOG NUMBER: HCC8W10D010BZ-HM80520935-81PSMDW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	77.3	7.0
10°-20°	208.4	19.0
20°-30°	296.6	27.0
30°-40°	219.5	20.0
40°-50°	108.7	9.9
50°-60°	86.8	7.9
60°-70°	60.2	5.5
70°-80°	32.5	3.0
80°-90°	9.6	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°	582.3	53.0
0°-40°	801.9	72.9
0°-60°	997.4	90.7
0°-90°	1099.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1099.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	837	
5°	823	77
15°	739	208
25°	654	297
35°	348	220
45°	138	109
55°	98	87
65°	61	60
75°	30	32
85°	9	10
90°	0	



TEST NUMBER: P583803  
CATALOG NUMBER: HCC8W10D010BZ-HM80520935-81PSMDW

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	837.1
2.5°	833.3
5°	823.0
7.5°	806.8
10°	783.8
12.5°	760.1
15°	738.7
17.5°	718.1
20°	698.8
22.5°	679.6
25°	653.6
27.5°	616.0
30°	560.5
32.5°	475.5
35°	347.5
37.5°	237.4
40°	179.7
42.5°	153.9
45°	138.2
47.5°	125.7
50°	114.7
52.5°	105.1
55°	97.6
57.5°	88.7
60°	79.1
62.5°	69.5
65°	60.6
67.5°	51.8
70°	44.4
72.5°	37.0
75°	30.3
77.5°	24.4
80°	18.5
82.5°	13.3
85°	8.9
87.5°	3.7
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)