

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: P583790

Luminaire Tested: **HCC8S10D010BZ-HM80520930-81WDC**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P583790  
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: HCC8S10D010BZ-HM80520930-81WDC  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, SPECULAR TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

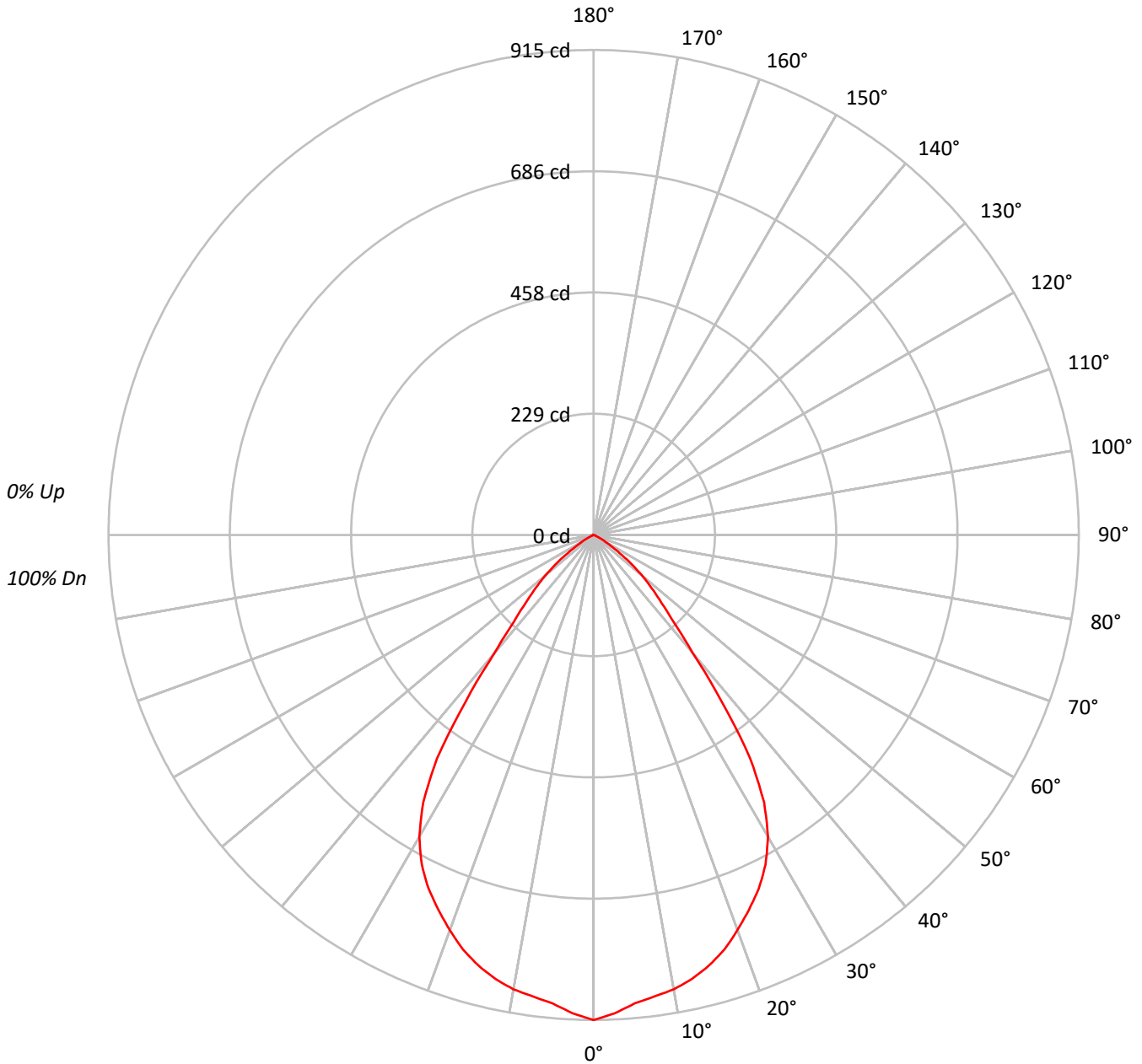
Lumens per Lamp: N/A  
Luminaire Lumens: 1176.4 lumens  
Efficiency: N/A  
Efficacy: 118.8 lumens/watt  
Spacing Criteria (0/90/45): 1.1 / 1.1 / 1.05  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

Input Watts (W): 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: P583790  
CATALOG NUMBER: HCC8S10D010BZ-HM80520930-81WDC

### Luminous Intensity Polar Plot



Cooper Lighting Solutions Photometric Lab  
 1121 Highway 74 South  
 Peachtree City, GA 30269



TEST NUMBER: P583790

CATALOG NUMBER: HCC8S10D010BZ-HM80520930-81WDC

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20									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	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	98	97	96	95	94	92	92	92	84																
	1	113	110	107	105	110	108	105	103	104	102	100	100	98	97	96	95	94	92	92	92	90	93	90	88	90	88	86	84																
	2	106	101	96	93	104	99	95	92	96	92	90	93	90	88	90	88	86	84	84	81	78	84	81	78	77	77	77	77																
	3	100	93	87	83	98	91	86	82	89	84	81	86	83	79	84	81	78	77	77	77	77	77	77	77	77	77	77	77																
	4	94	86	79	75	92	84	79	74	82	77	73	80	76	72	78	75	71	70	70	70	70	70	70	70	70	70	70	70																
	5	88	79	72	68	87	78	72	67	76	71	67	74	70	66	73	69	65	64	64	64	64	64	64	64	64	64	64	64																
	6	83	73	66	62	82	72	66	61	71	65	61	69	64	61	68	64	60	59	59	59	59	59	59	59	59	59	59	59																
	7	78	68	61	57	77	67	61	56	66	60	56	65	60	56	63	59	55	54	54	54	54	54	54	54	54	54	54	54																
	8	74	63	57	52	73	63	56	52	62	56	52	60	55	51	59	55	51	50	50	50	50	50	50	50	50	50	50	50																
	9	70	59	53	48	69	59	52	48	58	52	48	57	51	48	56	51	47	46	46	46	46	46	46	46	46	46	46	46																
	10	66	55	49	45	65	55	49	45	54	48	44	53	48	44	52	48	44	43	43	43	43	43	43	43	43	43	43	43																

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

	0°
0°	28224
5°	27466
10°	27257
15°	26848
20°	26036
25°	25066
30°	23415
35°	19375
40°	11698
45°	7880
50°	5680
55°	3236
60°	1425
65°	511
70°	180
75°	83
80°	0
85°	0



TEST NUMBER: P583790  
 CATALOG NUMBER: HCC8S10D010BZ-HM80520930-81WDC

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	84.3	7.2
10°-20°	236.4	20.1
20°-30°	337.2	28.7
30°-40°	307.0	26.1
40°-50°	144.9	12.3
50°-60°	57.0	4.8
60°-70°	9.1	0.8
70°-80°	0.6	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°	657.8	55.9
0°-40°	964.9	82.0
0°-60°	1166.7	99.2
0°-90°	1176.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1176.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	915	
5°	887	84
15°	841	236
25°	737	337
35°	515	307
45°	181	145
55°	60	57
65°	7	9
75°	1	1
85°	0	0
90°	0	



TEST NUMBER: P583790  
CATALOG NUMBER: HCC8S10D010BZ-HM80520930-81WDC

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	915.3
2.5°	903.4
5°	887.3
7.5°	878.2
10°	870.5
12.5°	857.9
15°	841.0
17.5°	820.1
20°	793.4
22.5°	765.4
25°	736.7
27.5°	701.7
30°	657.6
32.5°	598.1
35°	514.7
37.5°	397.7
40°	290.6
42.5°	223.5
45°	180.7
47.5°	148.4
50°	118.4
52.5°	88.9
55°	60.2
57.5°	37.9
60°	23.1
62.5°	14.1
65°	7.0
67.5°	3.5
70°	2.0
72.5°	0.7
75°	0.7
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)