

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: P593849

Luminaire Tested: **HCC8S55D010BZ-HM82555950-81PSMDW**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P593849  
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: HCC8S55D010BZ-HM82555950-81PSMDW  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" PLASTIC TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

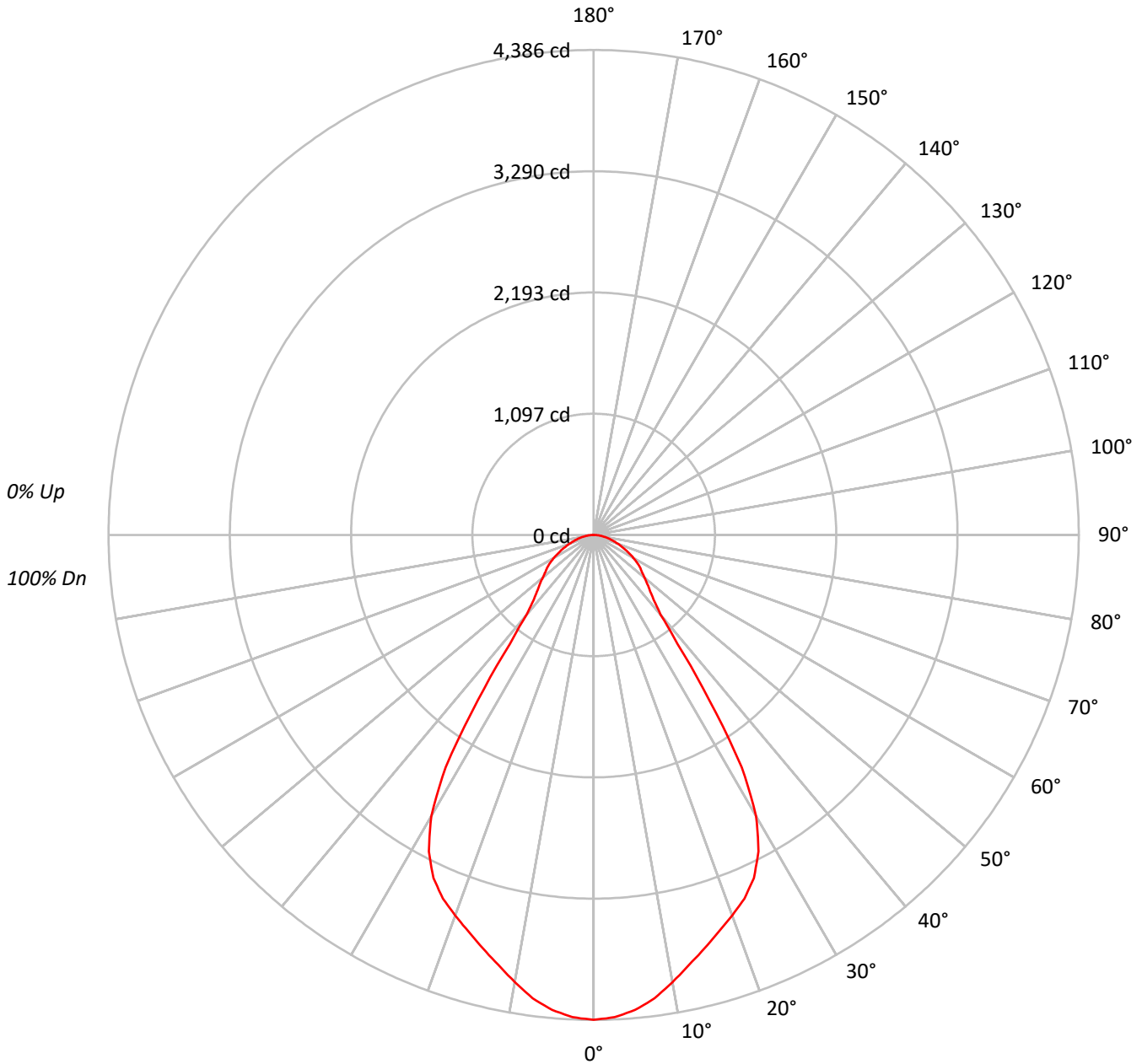
Lumens per Lamp: N/A  
Luminaire Lumens: 5761.1 lumens  
Efficiency: N/A  
Efficacy: 110.8 lumens/watt  
Spacing Criteria (0/90/45): 1.06 / 1.06 / 0.97  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

Input Watts (W): 52  
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: P593849  
CATALOG NUMBER: HCC8S55D010BZ-HM82555950-81PSMDW

### Luminous Intensity Polar Plot





TEST NUMBER: P593849  
 CATALOG NUMBER: HCC8S55D010BZ-HM82555950-81PSMDW

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

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

	0°
0°	135233
5°	133471
10°	128586
15°	123553
20°	120137
25°	116522
30°	104563
35°	68543
40°	37895
45°	31590
50°	28808
55°	27488
60°	25563
65°	23181
70°	20953
75°	18920
80°	17190
85°	16452



TEST NUMBER: P593849  
 CATALOG NUMBER: HCC8S55D010BZ-HM82555950-81PSMDW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	405.1	7.0
10°-20°	1091.9	19.0
20°-30°	1553.9	27.0
30°-40°	1150.1	20.0
40°-50°	569.6	9.9
50°-60°	454.6	7.9
60°-70°	315.6	5.5
70°-80°	170.1	3.0
80°-90°	50.0	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°	3051.0	53.0
0°-40°	4201.1	72.9
0°-60°	5225.4	90.7
0°-90°	5761.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5761.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4386	
5°	4312	405
15°	3870	1092
25°	3425	1554
35°	1821	1150
45°	724	570
55°	511	455
65°	318	316
75°	159	170
85°	46	50
90°	0	



TEST NUMBER: P593849

CATALOG NUMBER: HCC8S55D010BZ-HM82555950-81PSMDW

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	4385.5
2.5°	4366.1
5°	4311.9
7.5°	4226.6
10°	4106.6
12.5°	3982.6
15°	3870.2
17.5°	3761.8
20°	3661.0
22.5°	3560.3
25°	3424.7
27.5°	3227.1
30°	2936.6
32.5°	2491.1
35°	1820.8
37.5°	1243.6
40°	941.4
42.5°	805.9
45°	724.4
47.5°	658.5
50°	600.5
52.5°	550.1
55°	511.3
57.5°	464.9
60°	414.5
62.5°	364.1
65°	317.7
67.5°	271.2
70°	232.4
72.5°	193.7
75°	158.8
77.5°	127.9
80°	96.8
82.5°	69.7
85°	46.5
87.5°	19.3
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)