

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: P593646

Luminaire Tested: **HCC8S25D010SL-HM82555950-81WDW**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P593646  
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: HCC8S25D010SL-HM82555950-81WDW  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

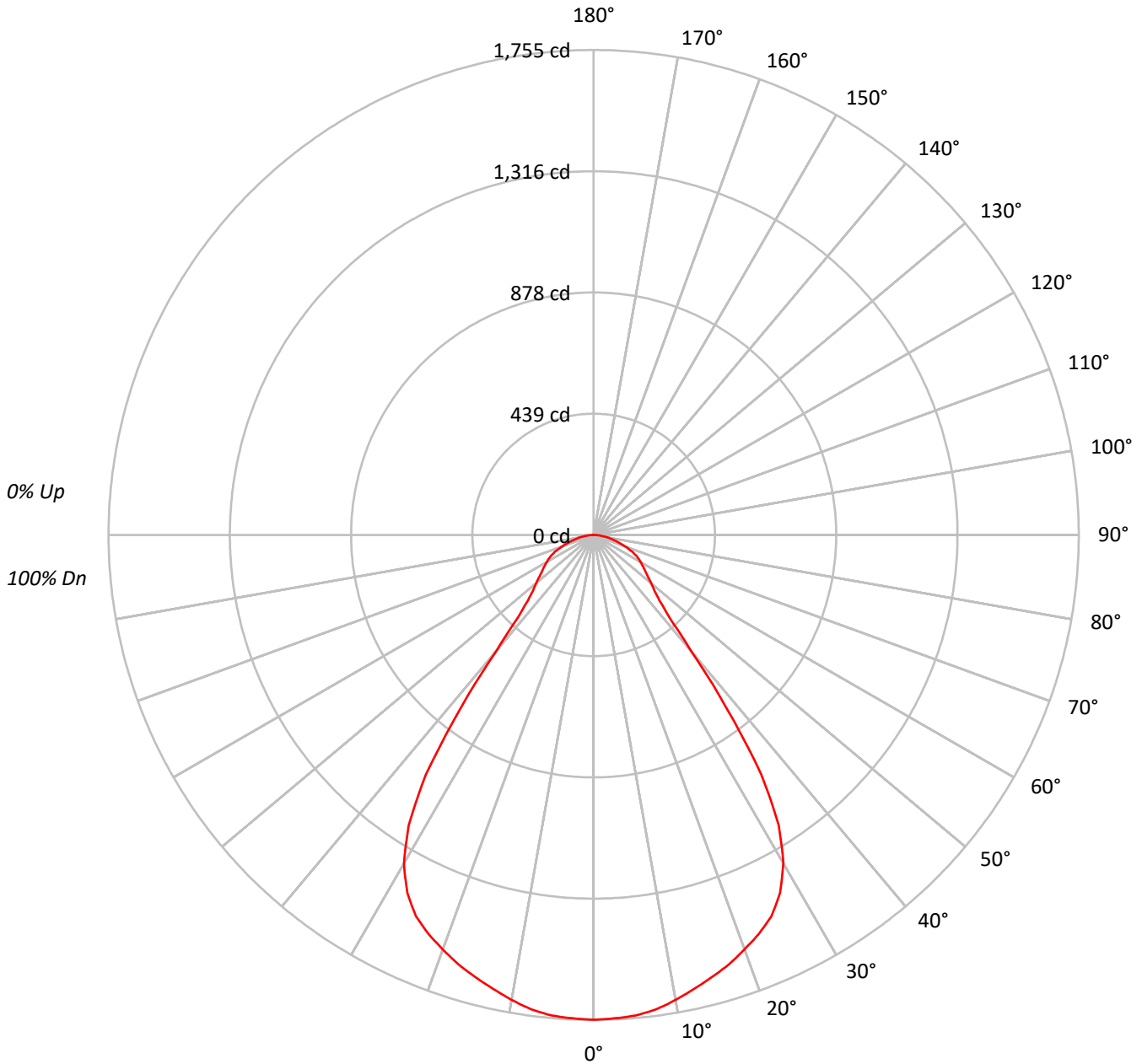
Lumens per Lamp: N/A  
Luminaire Lumens: 2706.4 lumens  
Efficiency: N/A  
Efficacy: 101.0 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.06  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

Input Watts (W): 26.8  
Input Voltage (V): NR  
Input Current (Ain): 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: P593646  
CATALOG NUMBER: HCC8S25D010SL-HM82555950-81WDW

### Luminous Intensity Polar Plot



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



TEST NUMBER: P593646

CATALOG NUMBER: HCC8S25D010SL-HM82555950-81WDW

**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°	54105
5°	54040
10°	53506
15°	52863
20°	52377
25°	51788
30°	48867
35°	39794
40°	21983
45°	14674
50°	13010
55°	12220
60°	12063
65°	11952
70°	10801
75°	9651
80°	8453
85°	7501



TEST NUMBER: P593646  
 CATALOG NUMBER: HCC8S25D010SL-HM82555950-81WDW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	165.5	6.1
10°-20°	467.6	17.3
20°-30°	694.8	25.7
30°-40°	625.7	23.1
40°-50°	277.4	10.2
50°-60°	205.4	7.6
60°-70°	159.8	5.9
70°-80°	86.6	3.2
80°-90°	23.7	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°	1327.8	49.1
0°-40°	1953.5	72.2
0°-60°	2436.3	90.0
0°-90°	2706.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2706.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1755	
5°	1746	165
15°	1656	468
25°	1522	695
35°	1057	626
45°	336	277
55°	227	205
65°	164	160
75°	81	87
85°	21	24
90°	0	



TEST NUMBER: P593646  
CATALOG NUMBER: HCC8S25D010SL-HM82555950-81WDW

**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1754.6
2.5°	1751.1
5°	1745.8
7.5°	1731.7
10°	1708.8
12.5°	1682.4
15°	1655.9
17.5°	1629.5
20°	1596.1
22.5°	1562.6
25°	1522.1
27.5°	1460.4
30°	1372.4
32.5°	1245.5
35°	1057.1
37.5°	789.2
40°	546.1
42.5°	403.4
45°	336.5
47.5°	297.7
50°	271.2
52.5°	246.6
55°	227.3
57.5°	211.4
60°	195.6
62.5°	181.5
65°	163.8
67.5°	142.7
70°	119.8
72.5°	100.4
75°	81.0
77.5°	63.5
80°	47.6
82.5°	33.5
85°	21.2
87.5°	8.8
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)