

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: P584836

Luminaire Tested: **HCC8S50D010SL-HM82555840-81PSMDW**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P584836  
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: HCC8S50D010SL-HM82555840-81PSMDW  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" PLASTIC TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

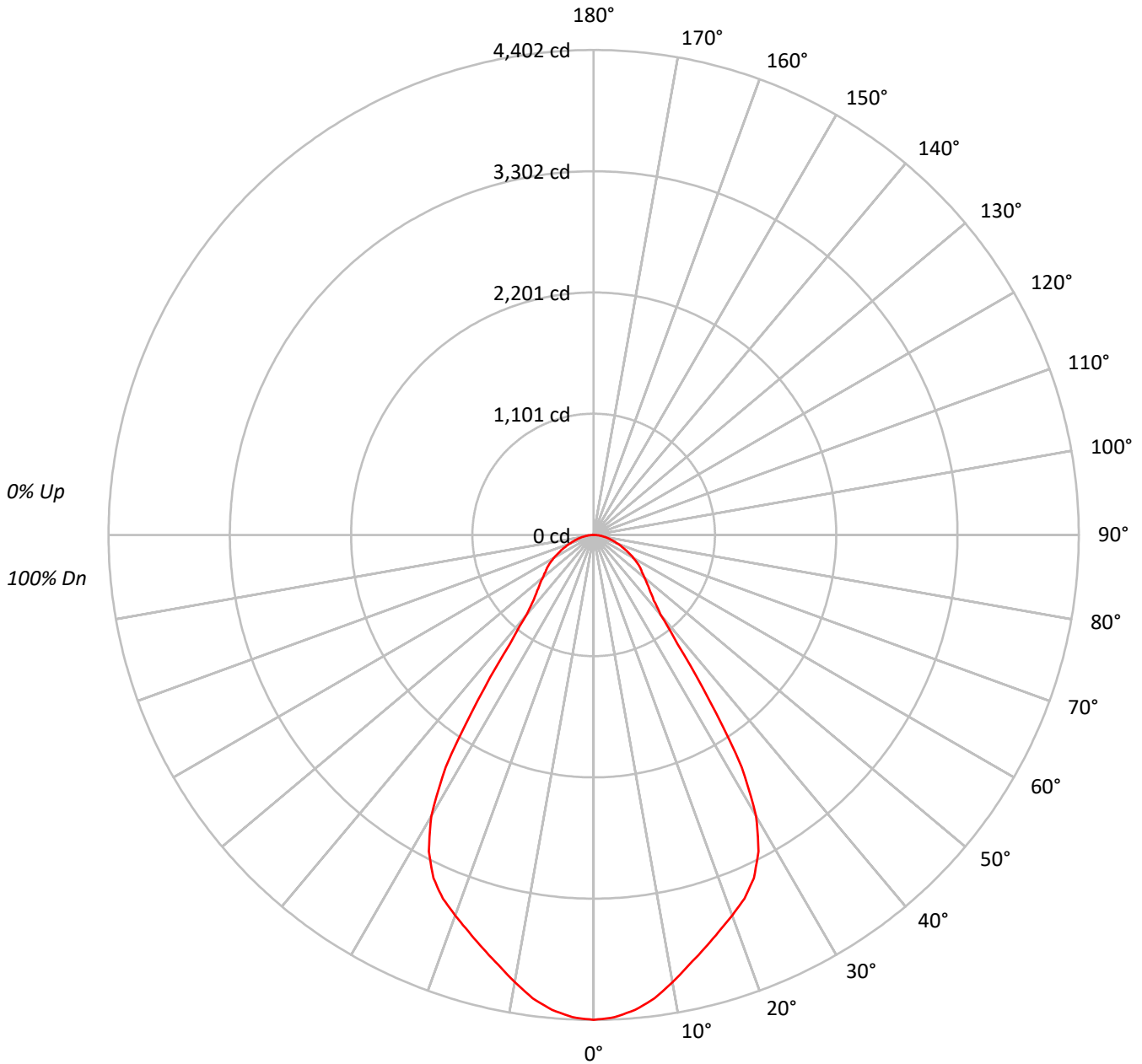
Lumens per Lamp: N/A  
Luminaire Lumens: 5782.8 lumens  
Efficiency: N/A  
Efficacy: 120.5 lumens/watt  
Spacing Criteria (0/90/45): 1.06 / 1.06 / 0.97  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

Input Watts (W): 48  
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: P584836  
CATALOG NUMBER: HCC8S50D010SL-HM82555840-81PSMDW

### Luminous Intensity Polar Plot





TEST NUMBER: P584836  
 CATALOG NUMBER: HCC8S50D010SL-HM82555840-81PSMDW

**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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	111	108	105	102	109	106	103	100	101	99	97	98	96	94	94	93	91	89
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79
3	97	89	83	77	95	87	82	77	85	80	76	82	78	74	80	76	73	71
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	70	66	64
5	85	75	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58
6	80	69	62	57	78	68	61	56	67	61	56	65	60	56	64	59	55	53
7	75	64	57	52	74	63	57	52	62	56	51	61	55	51	60	55	51	49
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	45
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42
10	64	52	46	41	62	52	45	41	51	45	41	50	45	41	49	44	41	39

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

	0°
0°	135738
5°	133969
10°	129065
15°	124016
20°	120590
25°	116961
30°	104951
35°	68799
40°	38036
45°	31708
50°	28913
55°	27596
60°	25656
65°	23269
70°	21034
75°	19003
80°	17278
85°	16487



TEST NUMBER: P584836  
 CATALOG NUMBER: HCC8S50D010SL-HM82555840-81PSMDW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	406.6	7.0
10°-20°	1096.0	19.0
20°-30°	1559.8	27.0
30°-40°	1154.4	20.0
40°-50°	571.8	9.9
50°-60°	456.4	7.9
60°-70°	316.8	5.5
70°-80°	170.8	3.0
80°-90°	50.2	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°	3062.4	53.0
0°-40°	4216.8	72.9
0°-60°	5245.0	90.7
0°-90°	5782.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5782.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4402	
5°	4328	407
15°	3885	1096
25°	3438	1560
35°	1828	1154
45°	727	572
55°	513	456
65°	319	317
75°	160	171
85°	47	50
90°	0	



TEST NUMBER: P584836  
CATALOG NUMBER: HCC8S50D010SL-HM82555840-81PSMDW

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	4401.9
2.5°	4382.5
5°	4328.0
7.5°	4242.4
10°	4121.9
12.5°	3997.5
15°	3884.7
17.5°	3775.9
20°	3674.8
22.5°	3573.6
25°	3437.6
27.5°	3239.2
30°	2947.5
32.5°	2500.4
35°	1827.6
37.5°	1248.3
40°	944.9
42.5°	808.8
45°	727.1
47.5°	661.1
50°	602.7
52.5°	552.2
55°	513.3
57.5°	466.7
60°	416.0
62.5°	365.5
65°	318.9
67.5°	272.3
70°	233.3
72.5°	194.4
75°	159.5
77.5°	128.4
80°	97.3
82.5°	70.0
85°	46.6
87.5°	19.4
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)