

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: P593781

Luminaire Tested: **HCC8S45D010SL-HM82555950-81PSMDW**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P593781  
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: HCC8S45D010SL-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**

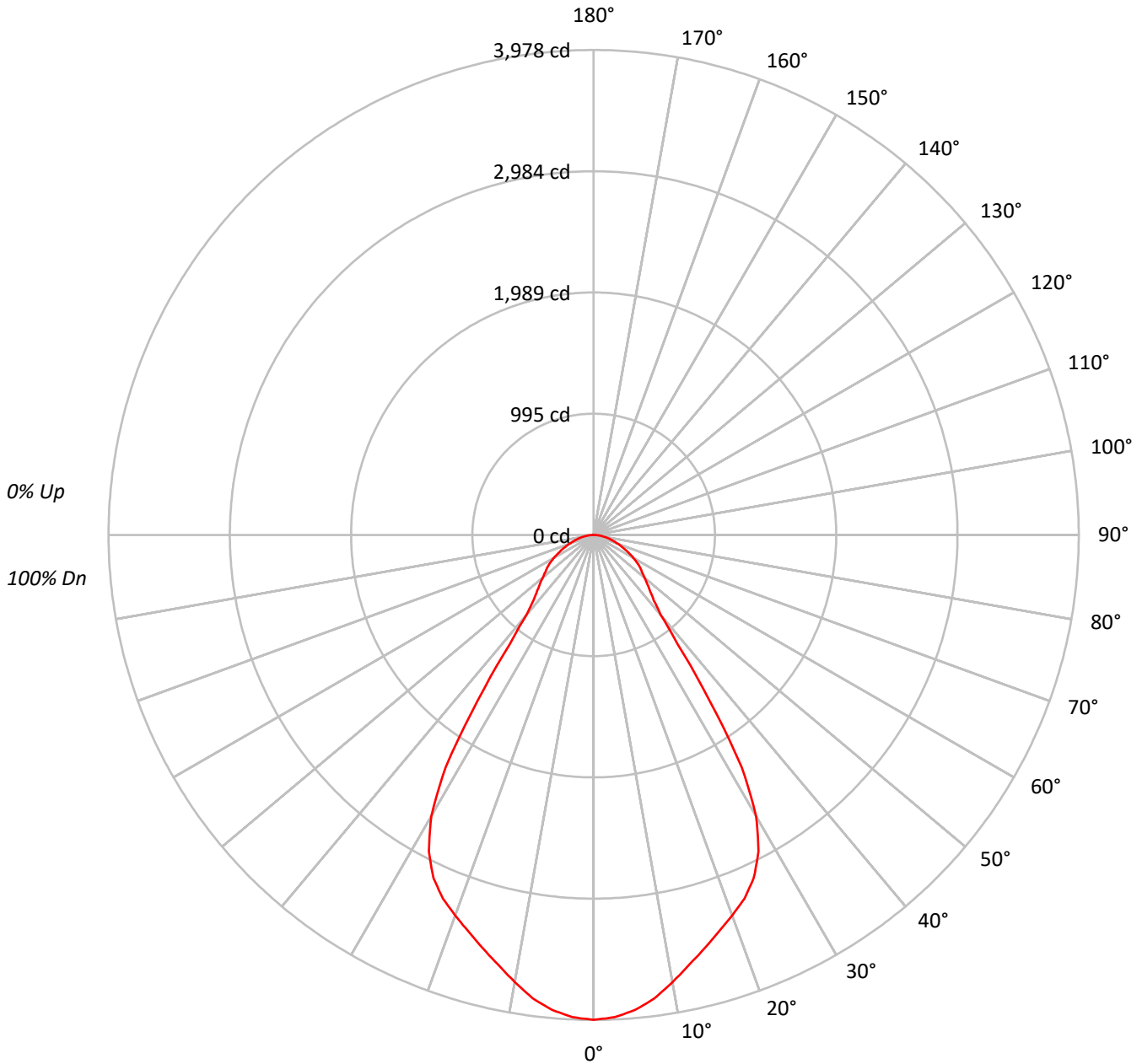
Lumens per Lamp: N/A  
Luminaire Lumens: 5225.2 lumens  
Efficiency: N/A  
Efficacy: 118.8 lumens/watt  
Spacing Criteria (0/90/45): 1.06 / 1.06 / 0.97  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

Input Watts (W): 44  
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: P593781  
CATALOG NUMBER: HCC8S45D010SL-HM82555950-81PSMDW

### Luminous Intensity Polar Plot





TEST NUMBER: P593781  
 CATALOG NUMBER: HCC8S45D010SL-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°	122651
5°	121055
10°	116622
15°	112060
20°	108960
25°	105682
30°	94835
35°	62169
40°	34369
45°	28656
50°	26126
55°	24935
60°	23183
65°	21021
70°	19006
75°	17157
80°	15609
85°	14895



TEST NUMBER: P593781  
 CATALOG NUMBER: HCC8S45D010SL-HM82555950-81PSMDW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	367.4	7.0
10°-20°	990.3	19.0
20°-30°	1409.4	27.0
30°-40°	1043.1	20.0
40°-50°	516.7	9.9
50°-60°	412.4	7.9
60°-70°	286.2	5.5
70°-80°	154.3	3.0
80°-90°	45.4	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°	2767.1	53.0
0°-40°	3810.3	72.9
0°-60°	4739.3	90.7
0°-90°	5225.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5225.2	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3978	
5°	3911	367
15°	3510	990
25°	3106	1409
35°	1652	1043
45°	657	517
55°	464	412
65°	288	286
75°	144	154
85°	42	45
90°	0	



TEST NUMBER: P593781  
CATALOG NUMBER: HCC8S45D010SL-HM82555950-81PSMDW

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3977.5
2.5°	3959.9
5°	3910.8
7.5°	3833.5
10°	3724.5
12.5°	3612.0
15°	3510.2
17.5°	3411.8
20°	3320.4
22.5°	3229.0
25°	3106.1
27.5°	2926.9
30°	2663.4
32.5°	2259.3
35°	1651.5
37.5°	1127.8
40°	853.8
42.5°	730.9
45°	657.1
47.5°	597.3
50°	544.6
52.5°	499.0
55°	463.8
57.5°	421.7
60°	375.9
62.5°	330.3
65°	288.1
67.5°	246.0
70°	210.8
72.5°	175.7
75°	144.0
77.5°	116.0
80°	87.9
82.5°	63.2
85°	42.1
87.5°	17.6
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)