

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: P593782

Luminaire Tested: **HCC8W45D010SL-HM82555950-81WDW**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P593782  
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: HCC8W45D010SL-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**

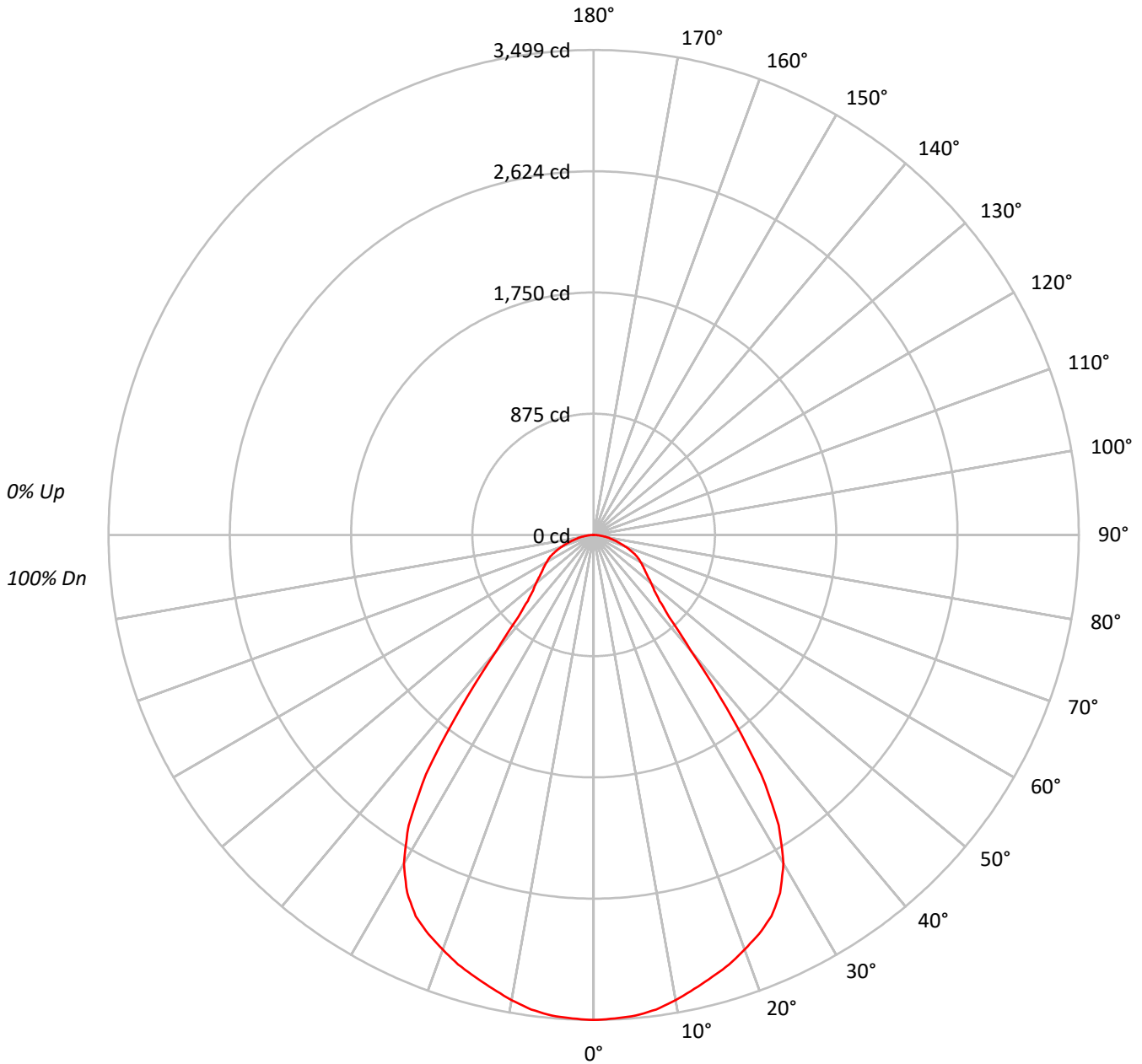
Lumens per Lamp: N/A  
Luminaire Lumens: 5397.3 lumens  
Efficiency: N/A  
Efficacy: 122.7 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.06  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

Input Watts (W): 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: P593782  
CATALOG NUMBER: HCC8W45D010SL-HM82555950-81WDW

### Luminous Intensity Polar Plot





TEST NUMBER: P593782

CATALOG NUMBER: HCC8W45D010SL-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°	107906
5°	107773
10°	106708
15°	105433
20°	104454
25°	103280
30°	97448
35°	79354
40°	43841
45°	29266
50°	25958
55°	24365
60°	24052
65°	23845
70°	21539
75°	19253
80°	16852
85°	14895



TEST NUMBER: P593782  
 CATALOG NUMBER: HCC8W45D010SL-HM82555950-81WDW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	330.0	6.1
10°-20°	932.5	17.3
20°-30°	1385.6	25.7
30°-40°	1247.8	23.1
40°-50°	553.2	10.2
50°-60°	409.7	7.6
60°-70°	318.6	5.9
70°-80°	172.7	3.2
80°-90°	47.3	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°	2648.1	49.1
0°-40°	3895.9	72.2
0°-60°	4858.7	90.0
0°-90°	5397.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5397.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3499	
5°	3482	330
15°	3303	932
25°	3036	1386
35°	2108	1248
45°	671	553
55°	453	410
65°	327	319
75°	162	173
85°	42	47
90°	0	



TEST NUMBER: P593782  
CATALOG NUMBER: HCC8W45D010SL-HM82555950-81WDW

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3499.3
2.5°	3492.3
5°	3481.7
7.5°	3453.7
10°	3407.9
12.5°	3355.2
15°	3302.6
17.5°	3249.8
20°	3183.1
22.5°	3116.3
25°	3035.5
27.5°	2912.6
30°	2736.8
32.5°	2483.9
35°	2108.0
37.5°	1573.9
40°	1089.1
42.5°	804.6
45°	671.1
47.5°	593.8
50°	541.1
52.5°	491.8
55°	453.2
57.5°	421.6
60°	390.0
62.5°	361.9
65°	326.8
67.5°	284.6
70°	238.9
72.5°	200.2
75°	161.6
77.5°	126.4
80°	94.9
82.5°	66.7
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)