

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: P593780

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

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P593780  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-3)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 10/21/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC8S45D010SL-HM82555950-81NDW  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" NARROW DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

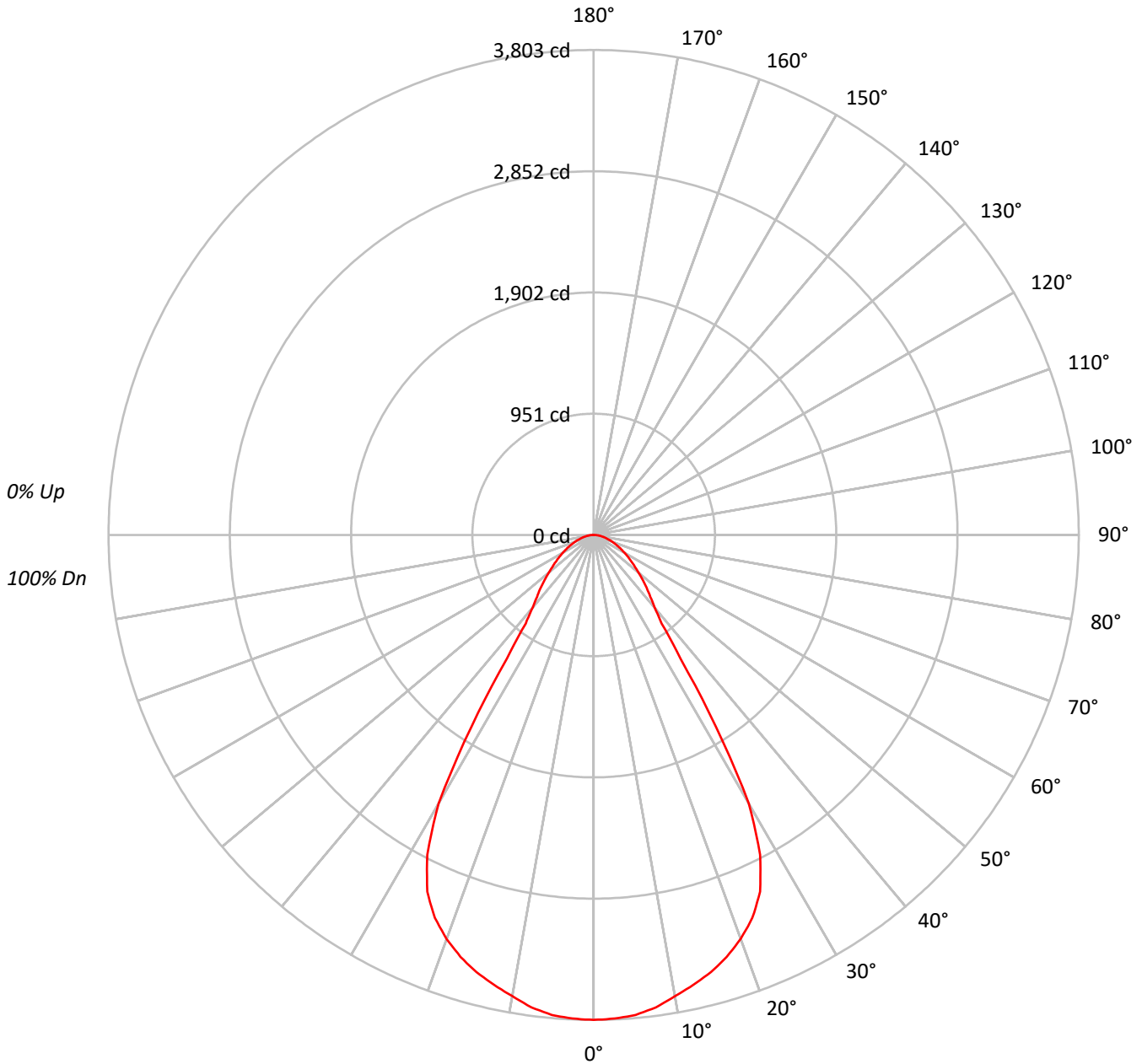
Lumens per Lamp: N/A  
Luminaire Lumens: 4705.2 lumens  
Efficiency: N/A  
Efficacy: 106.9 lumens/watt  
Spacing Criteria (0/90/45): 1.06 / 1.06 / 0.92  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

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: P593780  
CATALOG NUMBER: HCC8S45D010SL-HM82555950-81NDW

### Luminous Intensity Polar Plot





TEST NUMBER: P593780

CATALOG NUMBER: HCC8S45D010SL-HM82555950-81NDW

**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			
1	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90			
2	105	99	94	90	102	97	92	88	94	90	87	91	87	85	88	85	83	81			
3	98	90	84	79	96	89	83	79	86	81	77	84	80	76	81	78	75	73			
4	92	83	76	71	90	82	76	71	80	74	70	77	73	69	75	72	68	67			
5	87	77	70	65	85	76	69	64	74	68	64	72	67	63	70	66	63	61			
6	82	71	64	59	80	70	64	59	69	63	58	67	62	58	66	61	58	56			
7	77	66	59	54	76	66	59	54	64	58	54	63	58	54	62	57	53	52			
8	73	62	55	50	71	61	55	50	60	54	50	59	54	50	58	53	49	48			
9	69	58	51	47	68	57	51	47	56	51	46	55	50	46	55	50	46	45			
10	65	55	48	44	64	54	48	44	53	47	43	52	47	43	52	47	43	42			

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

	0°
0°	117277
5°	116966
10°	115015
15°	113337
20°	110617
25°	105005
30°	86613
35°	44593
40°	29856
45°	25599
50°	22091
55°	19279
60°	17120
65°	15388
70°	13948
75°	12570
80°	11223
85°	11216



TEST NUMBER: P593780  
 CATALOG NUMBER: HCC8S45D010SL-HM82555950-81NDW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	357.3	7.6
10°-20°	998.8	21.2
20°-30°	1384.0	29.4
30°-40°	831.3	17.7
40°-50°	455.1	9.7
50°-60°	323.3	6.9
60°-70°	209.9	4.5
70°-80°	112.2	2.4
80°-90°	33.5	0.7
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°	2740.1	58.2
0°-40°	3571.3	75.9
0°-60°	4349.7	92.4
0°-90°	4705.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4705.2	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3803	
5°	3779	357
15°	3550	999
25°	3086	1384
35°	1185	831
45°	587	455
55°	359	323
65°	211	210
75°	106	112
85°	32	33
90°	0	



TEST NUMBER: P593780  
CATALOG NUMBER: HCC8S45D010SL-HM82555950-81NDW

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3803.2
2.5°	3796.2
5°	3778.7
7.5°	3736.5
10°	3673.2
12.5°	3613.4
15°	3550.2
17.5°	3469.4
20°	3370.9
22.5°	3251.4
25°	3086.2
27.5°	2826.1
30°	2432.5
32.5°	1782.1
35°	1184.6
37.5°	875.3
40°	741.7
42.5°	657.3
45°	587.0
47.5°	520.2
50°	460.5
52.5°	404.2
55°	358.6
57.5°	316.4
60°	277.6
62.5°	242.6
65°	210.9
67.5°	179.2
70°	154.7
72.5°	126.6
75°	105.5
77.5°	84.3
80°	63.2
82.5°	45.7
85°	31.7
87.5°	14.1
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)