

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: P584696

Luminaire Tested: **HCC8S45D010SL-HM82555840-81MDW**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P584696  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-6)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 10/21/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC8S45D010SL-HM82555840-81MDW  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" MEDIUM DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

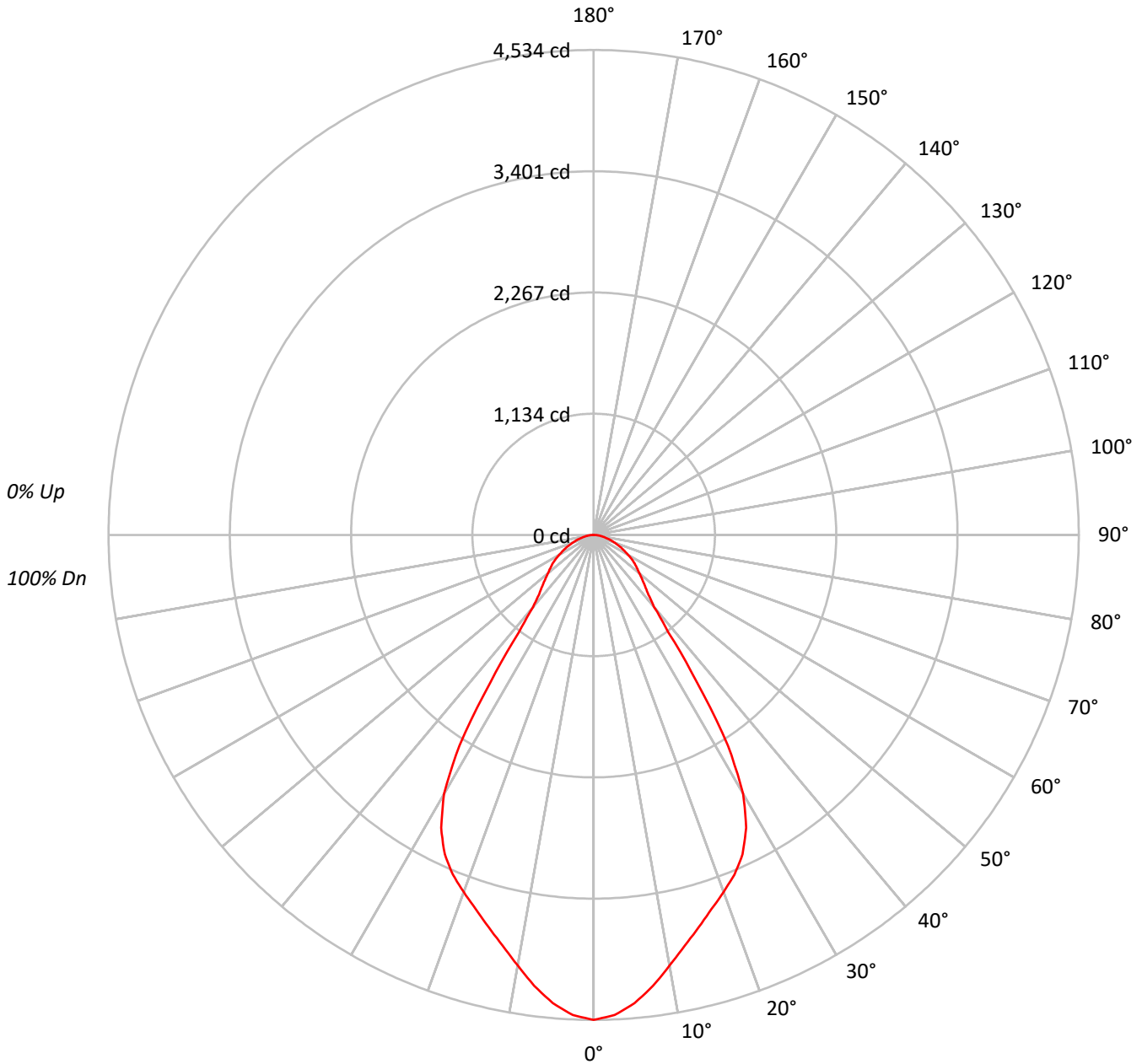
Lumens per Lamp: N/A  
Luminaire Lumens: 5467.8 lumens  
Efficiency: N/A  
Efficacy: 124.3 lumens/watt  
Spacing Criteria (0/90/45): 1 / 1 / 0.95  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

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: P584696  
CATALOG NUMBER: HCC8S45D010SL-HM82555840-81MDW

### Luminous Intensity Polar Plot





TEST NUMBER: P584696  
 CATALOG NUMBER: HCC8S45D010SL-HM82555840-81MDW

**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	100	102	99	97	98	96	94	94	93	92	90				
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	80				
3	98	89	83	78	95	88	82	78	85	80	76	83	78	75	80	77	74	72				
4	91	82	75	70	89	81	74	69	78	73	69	76	72	68	74	70	67	65				
5	86	76	68	63	84	75	68	63	73	67	62	71	66	62	69	65	61	59				
6	81	70	63	58	79	69	62	57	67	61	57	66	61	56	64	60	56	54				
7	76	65	58	53	74	64	57	53	63	57	52	62	56	52	60	55	52	50				
8	72	61	54	49	70	60	53	49	59	53	48	58	52	48	57	52	48	46				
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43				
10	64	53	46	42	63	53	46	42	52	46	42	51	46	42	50	45	42	40				

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

	0°
0°	139815
5°	136003
10°	127982
15°	121171
20°	116560
25°	112055
30°	99521
35°	63378
40°	35371
45°	29628
50°	26745
55°	25214
60°	22998
65°	20744
70°	18302
75°	16287
80°	14419
85°	13055



TEST NUMBER: P584696  
 CATALOG NUMBER: HCC8S45D010SL-HM82555840-81MDW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	409.6	7.5
10°-20°	1070.4	19.6
20°-30°	1493.3	27.3
30°-40°	1074.5	19.7
40°-50°	532.5	9.7
50°-60°	416.7	7.6
60°-70°	282.0	5.2
70°-80°	146.5	2.7
80°-90°	42.2	0.8
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°	2973.4	54.4
0°-40°	4047.9	74.0
0°-60°	4997.1	91.4
0°-90°	5467.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5467.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4534	
5°	4394	410
15°	3796	1070
25°	3293	1493
35°	1684	1075
45°	679	533
55°	469	417
65°	284	282
75°	137	147
85°	37	42
90°	0	



TEST NUMBER: P584696  
CATALOG NUMBER: HCC8S45D010SL-HM82555840-81MDW

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	4534.1
2.5°	4493.4
5°	4393.7
7.5°	4253.4
10°	4087.3
12.5°	3932.2
15°	3795.6
17.5°	3666.4
20°	3552.0
22.5°	3437.5
25°	3293.4
27.5°	3086.7
30°	2795.0
32.5°	2337.2
35°	1683.6
37.5°	1148.2
40°	878.7
42.5°	756.9
45°	679.4
47.5°	612.9
50°	557.5
52.5°	509.6
55°	469.0
57.5°	420.9
60°	372.9
62.5°	324.9
65°	284.3
67.5°	243.6
70°	203.0
72.5°	169.9
75°	136.7
77.5°	107.1
80°	81.2
82.5°	59.1
85°	36.9
87.5°	18.4
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)