

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: P593760

Luminaire Tested: **HCC8W45D010SL-HM82555850-81NDC**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P593760  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-1)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 10/21/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC8W45D010SL-HM82555850-81NDC  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" NARROW DISTRIBUTION, SPECULAR TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

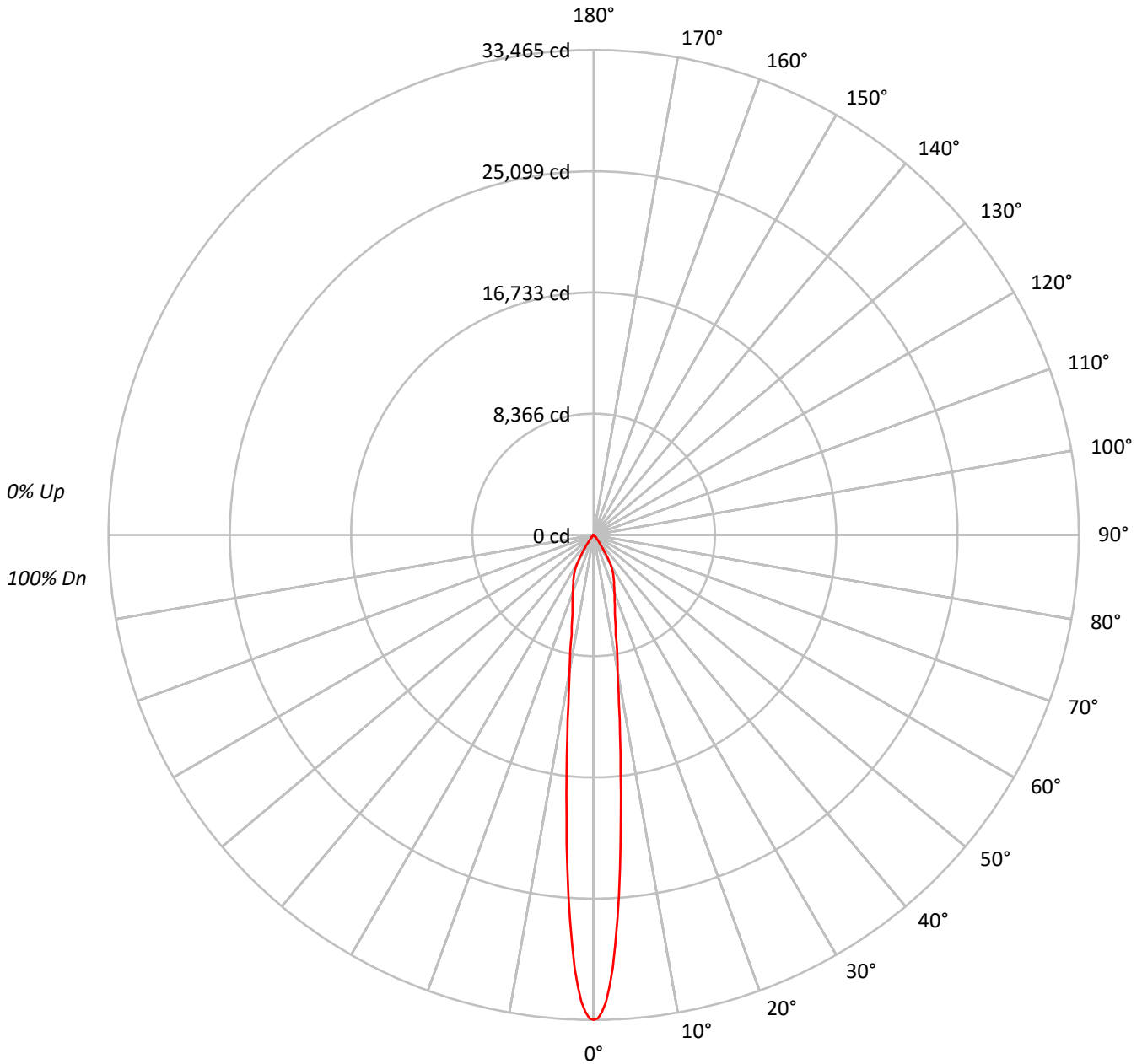
Lumens per Lamp: N/A  
Luminaire Lumens: 5482.4 lumens  
Efficiency: N/A  
Efficacy: 124.6 lumens/watt  
Spacing Criteria (0/90/45): 0.22 / 0.22 / 0.27  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

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: P593760  
CATALOG NUMBER: HCC8W45D010SL-HM82555850-81NDC

### Luminous Intensity Polar Plot





TEST NUMBER: P593760  
 CATALOG NUMBER: HCC8W45D010SL-HM82555850-81NDC

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20									20									20									20									
RC	80									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	115	112	110	108	112	110	108	107	106	105	103	102	101	100	99	98	97	96																			
2	110	106	103	100	108	104	101	99	101	99	97	98	96	95	96	94	93	91																			
3	106	101	97	93	104	99	96	93	97	94	91	95	92	90	92	90	89	87																			
4	102	96	91	88	100	95	91	88	93	89	87	91	88	86	89	87	85	83																			
5	98	92	87	83	97	91	86	83	89	85	82	87	84	82	86	83	81	80																			
6	95	88	83	79	93	87	82	79	86	82	79	84	81	78	83	80	78	76																			
7	91	84	79	76	90	83	79	76	82	78	75	81	78	75	80	77	75	73																			
8	88	81	76	73	87	80	76	73	79	75	72	78	75	72	77	74	72	71																			
9	85	78	73	70	84	77	73	70	76	72	70	76	72	69	75	72	69	68																			
10	83	75	70	67	82	75	70	67	74	70	67	73	69	67	73	69	67	66																			

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

	0°
0°	1031943
5°	661913
10°	299011
15°	180416
20°	137483
25°	111024
30°	81358
35°	29457
40°	10997
45°	4993
50°	1593
55°	398
60°	222
65°	263
70°	0
75°	0
80°	639
85°	1274



TEST NUMBER: P593760  
 CATALOG NUMBER: HCC8W45D010SL-HM82555850-81NDC

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1630.9	29.7
10°-20°	1656.5	30.2
20°-30°	1482.9	27.0
30°-40°	597.3	10.9
40°-50°	98.0	1.8
50°-60°	8.9	0.2
60°-70°	3.1	0.1
70°-80°	2.4	0.0
80°-90°	3.4	0.1
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°	4770.3	87.0
0°-40°	5367.6	97.9
0°-60°	5474.4	99.9
0°-90°	5483.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5482.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	33465	
5°	21384	###
15°	5651	1657
25°	3263	1483
35°	782	597
45°	114	98
55°	7	9
65°	4	3
75°	0	2
85°	4	3
90°	0	



TEST NUMBER: P593760  
CATALOG NUMBER: HCC8W45D010SL-HM82555850-81NDC

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	33465.2
0.5°	33361.9
1°	32930.0
1.5°	32236.0
2°	31184.0
2.5°	29940.0
3°	28382.3
3.5°	26673.2
4°	24982.7
4.5°	23089.0
5°	21383.7
5.5°	19526.9
6°	18020.9
6.5°	16452.0
7°	15219.2
7.5°	13916.1
8°	12867.8
8.5°	11815.9
9°	11025.8
9.5°	10154.8
10°	9549.4
12.5°	7042.9
15°	5651.4
17.5°	4828.2
20°	4189.6
22.5°	3680.2
25°	3263.1
27.5°	2845.9
30°	2284.9
32.5°	1469.2
35°	782.5
37.5°	431.9
40°	273.2
42.5°	180.9
45°	114.5
47.5°	70.1
50°	33.2
52.5°	11.0
55°	7.4
57.5°	3.6
60°	3.6
62.5°	3.6
65°	3.6

Classified  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



TEST NUMBER: P593760  
CATALOG NUMBER: HCC8W45D010SL-HM82555850-81NDC

**CANDELA DISTRIBUTION (continued):**

	0°
72.5°	0.0
75°	0.0
77.5°	3.6
80°	3.6
82.5°	3.6
85°	3.6
87.5°	3.6
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



67.5°		3.6
70°		0.0

Classified  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



(END OF REPORT)