

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: P593627

Luminaire Tested: **HCC8W25D010MB-HM82555850-81NDW**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P593627  
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: HCC8W25D010MB-HM82555850-81NDW  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" NARROW DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

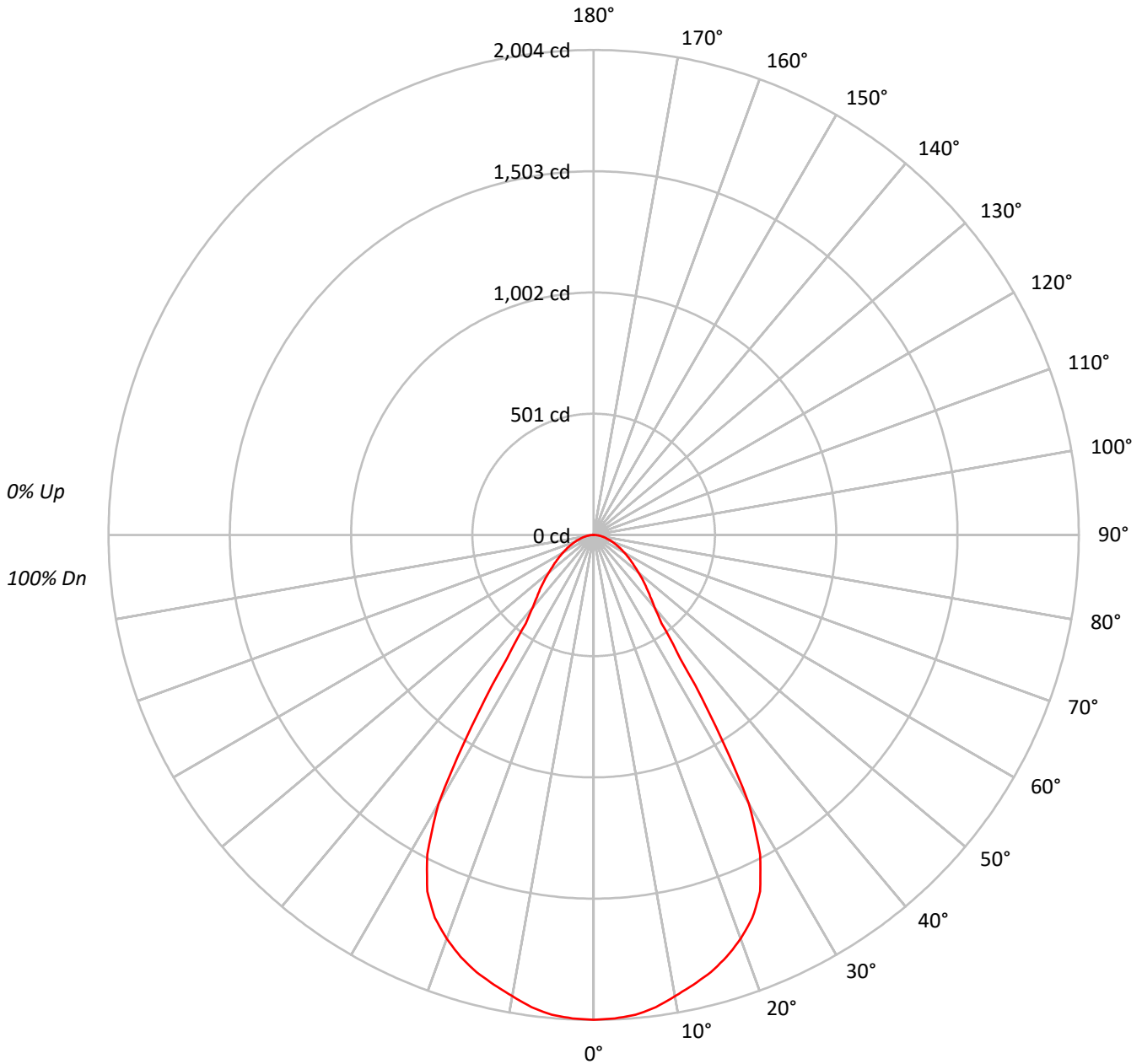
Lumens per Lamp: N/A  
Luminaire Lumens: 2478.9 lumens  
Efficiency: N/A  
Efficacy: 92.5 lumens/watt  
Spacing Criteria (0/90/45): 1.06 / 1.06 / 0.92  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

Input Watts (W): 26.8  
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: P593627  
CATALOG NUMBER: HCC8W25D010MB-HM82555850-81NDW

### Luminous Intensity Polar Plot





TEST NUMBER: P593627

CATALOG NUMBER: HCC8W25D010MB-HM82555850-81NDW

**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°	61787
5°	61620
10°	60595
15°	59711
20°	58277
25°	55323
30°	45626
35°	23490
40°	15731
45°	13484
50°	11638
55°	10156
60°	9023
65°	8106
70°	7348
75°	6612
80°	5931
85°	5909



TEST NUMBER: P593627  
 CATALOG NUMBER: HCC8W25D010MB-HM82555850-81NDW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	188.2	7.6
10°-20°	526.2	21.2
20°-30°	729.1	29.4
30°-40°	437.9	17.7
40°-50°	239.7	9.7
50°-60°	170.3	6.9
60°-70°	110.6	4.5
70°-80°	59.1	2.4
80°-90°	17.7	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°	1443.6	58.2
0°-40°	1881.5	75.9
0°-60°	2291.5	92.4
0°-90°	2478.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2478.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2004	
5°	1991	188
15°	1870	526
25°	1626	729
35°	624	438
45°	309	240
55°	189	170
65°	111	111
75°	56	59
85°	17	18
90°	0	



TEST NUMBER: P593627  
CATALOG NUMBER: HCC8W25D010MB-HM82555850-81NDW

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2003.7
2.5°	2000.0
5°	1990.7
7.5°	1968.5
10°	1935.2
12.5°	1903.7
15°	1870.4
17.5°	1827.8
20°	1775.9
22.5°	1713.0
25°	1626.0
27.5°	1488.9
30°	1281.4
32.5°	938.9
35°	624.0
37.5°	461.1
40°	390.8
42.5°	346.3
45°	309.2
47.5°	274.0
50°	242.6
52.5°	212.9
55°	188.9
57.5°	166.7
60°	146.3
62.5°	127.8
65°	111.1
67.5°	94.5
70°	81.5
72.5°	66.7
75°	55.5
77.5°	44.4
80°	33.4
82.5°	24.1
85°	16.7
87.5°	7.4
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)