

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: P584122

Luminaire Tested: **HCC8W25D010MB-HM82555830-81PSMDW**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P584122  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-12)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 10/21/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC8W25D010MB-HM82555830-81PSMDW  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" PLASTIC TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

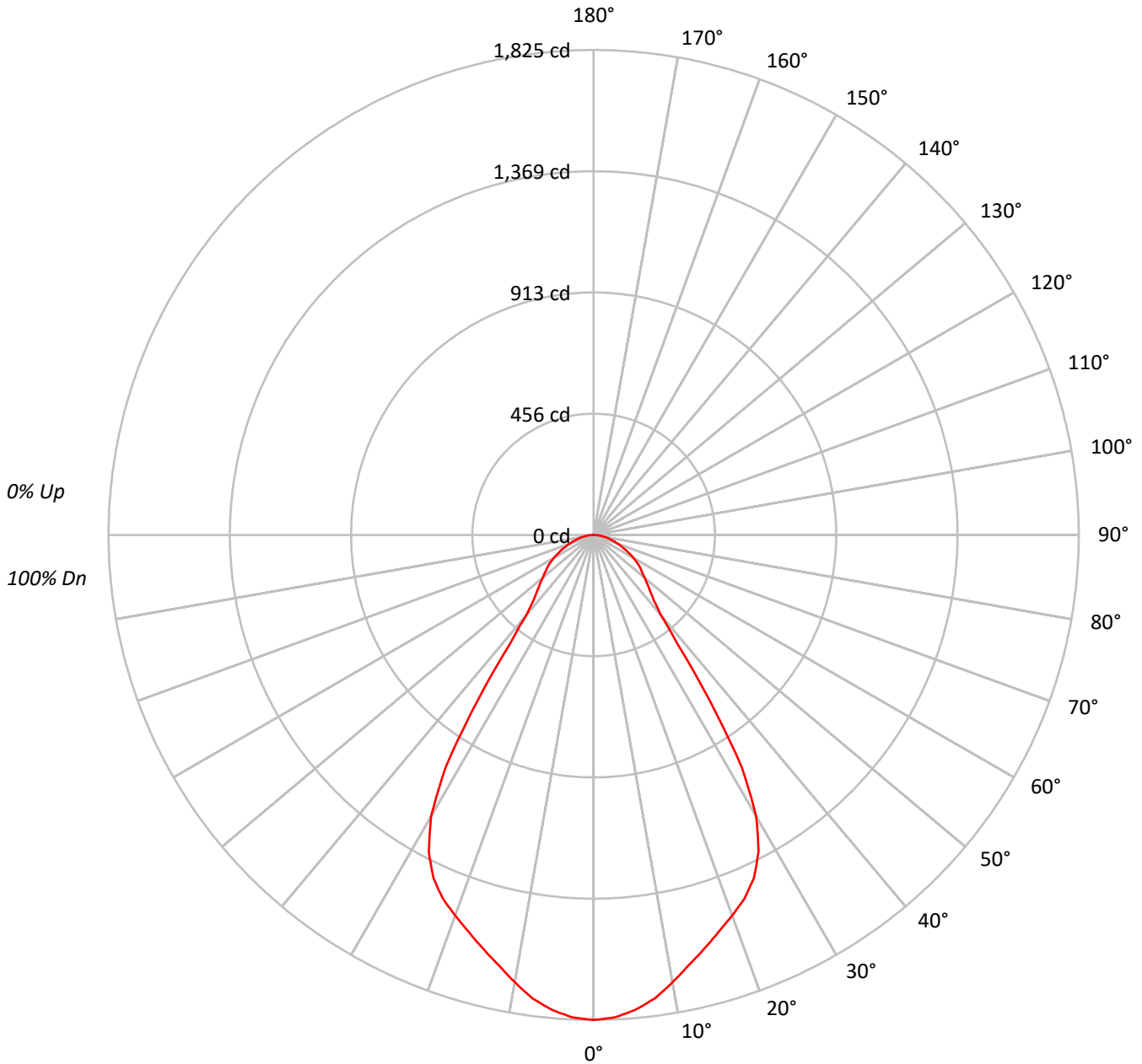
Lumens per Lamp: N/A  
Luminaire Lumens: 2397.8 lumens  
Efficiency: N/A  
Efficacy: 89.5 lumens/watt  
Spacing Criteria (0/90/45): 1.06 / 1.06 / 0.97  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

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: P584122  
CATALOG NUMBER: HCC8W25D010MB-HM82555830-81PSMDW

### Luminous Intensity Polar Plot





TEST NUMBER: P584122  
 CATALOG NUMBER: HCC8W25D010MB-HM82555830-81PSMDW

**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	105	102	109	106	103	100	101	99	97	98	96	94	94	93	91	89			89
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79			79
3	97	89	83	77	95	87	82	77	85	80	76	82	78	74	80	76	73	71			71
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	70	66	64			64
5	85	75	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58			58
6	80	69	62	57	78	68	61	56	67	61	56	65	60	56	64	59	55	53			53
7	75	64	57	52	74	63	57	52	62	56	51	61	55	51	60	55	51	49			49
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	45			45
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42			42
10	64	52	46	41	62	52	45	41	51	45	41	50	45	41	49	44	41	39			39

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

	0°
0°	56282
5°	55550
10°	53515
15°	51423
20°	50001
25°	48495
30°	43522
35°	28531
40°	15771
45°	13148
50°	11993
55°	11440
60°	10639
65°	9653
70°	8718
75°	7875
80°	7156
85°	6864



TEST NUMBER: P584122  
 CATALOG NUMBER: HCC8W25D010MB-HM82555830-81PSMDW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	168.6	7.0
10°-20°	454.4	19.0
20°-30°	646.8	27.0
30°-40°	478.7	20.0
40°-50°	237.1	9.9
50°-60°	189.2	7.9
60°-70°	131.4	5.5
70°-80°	70.8	3.0
80°-90°	20.8	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°	1269.8	53.0
0°-40°	1748.5	72.9
0°-60°	2174.8	90.7
0°-90°	2397.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2397.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1825	
5°	1795	169
15°	1611	454
25°	1425	647
35°	758	479
45°	302	237
55°	213	189
65°	132	131
75°	66	71
85°	19	21
90°	0	



TEST NUMBER: P584122  
CATALOG NUMBER: HCC8W25D010MB-HM82555830-81PSMDW

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1825.2
2.5°	1817.2
5°	1794.6
7.5°	1759.2
10°	1709.1
12.5°	1657.5
15°	1610.8
17.5°	1565.6
20°	1523.7
22.5°	1481.8
25°	1425.3
27.5°	1343.2
30°	1222.3
32.5°	1036.8
35°	757.9
37.5°	517.6
40°	391.8
42.5°	335.3
45°	301.5
47.5°	274.1
50°	250.0
52.5°	229.0
55°	212.8
57.5°	193.5
60°	172.5
62.5°	151.6
65°	132.3
67.5°	112.9
70°	96.7
72.5°	80.6
75°	66.1
77.5°	53.2
80°	40.3
82.5°	29.0
85°	19.4
87.5°	8.0
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)