

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: P584203

Luminaire Tested: **HCC8S25D010MW-HM82555935-81MDW**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P584203  
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: HCC8S25D010MW-HM82555935-81MDW  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" MEDIUM DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

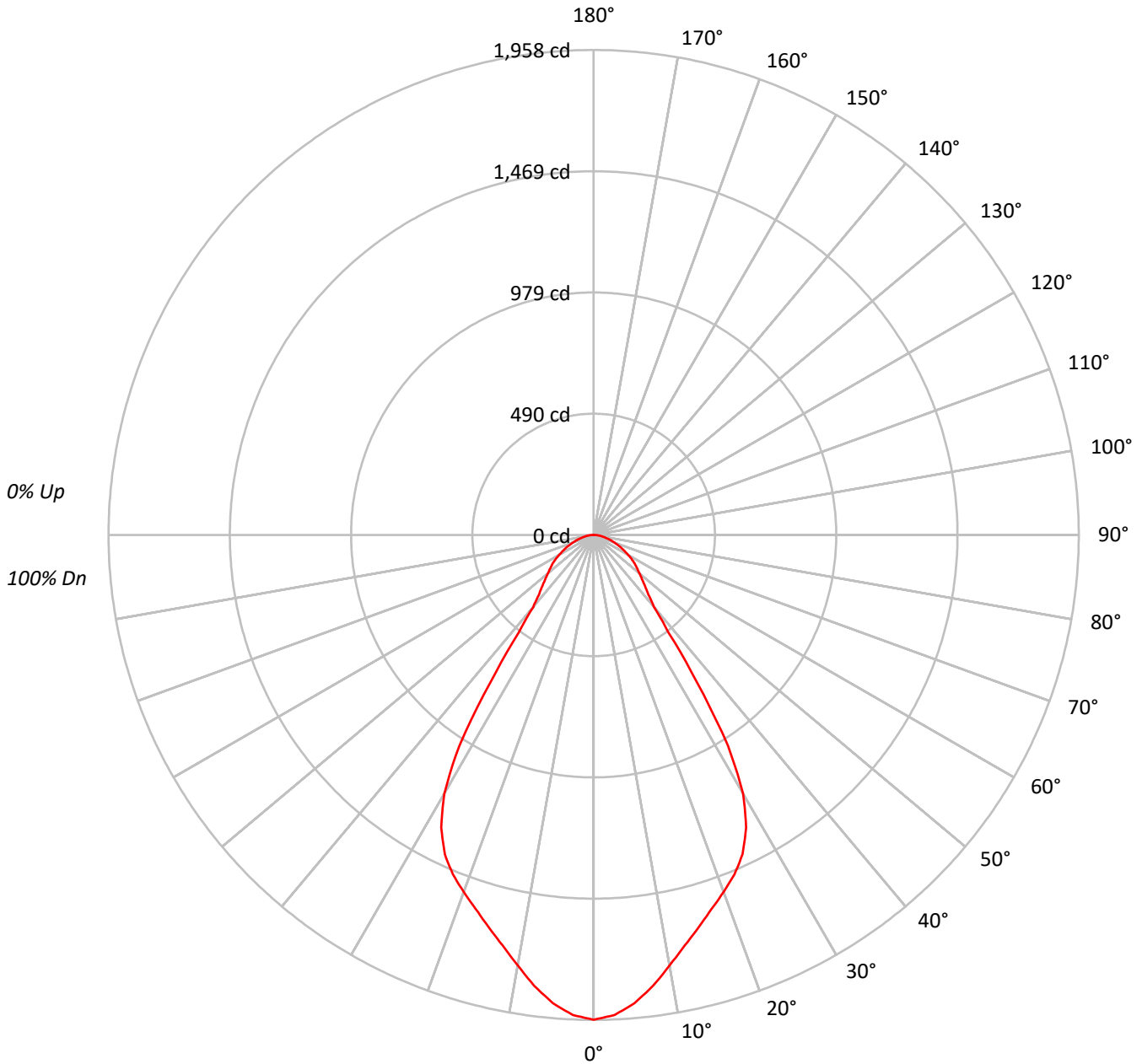
Lumens per Lamp: N/A  
Luminaire Lumens: 2360.7 lumens  
Efficiency: N/A  
Efficacy: 88.1 lumens/watt  
Spacing Criteria (0/90/45): 1 / 1 / 0.95  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

Input Watts (W): 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: P584203  
CATALOG NUMBER: HCC8S25D010MW-HM82555935-81MDW

### Luminous Intensity Polar Plot



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



TEST NUMBER: P584203

CATALOG NUMBER: HCC8S25D010MW-HM82555935-81MDW

**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°	60365
5°	58720
10°	55253
15°	52314
20°	50322
25°	48379
30°	42967
35°	27367
40°	15272
45°	12791
50°	11552
55°	10881
60°	9929
65°	8953
70°	7898
75°	7029
80°	6233
85°	5626



TEST NUMBER: P584203  
 CATALOG NUMBER: HCC8S25D010MW-HM82555935-81MDW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	176.8	7.5
10°-20°	462.2	19.6
20°-30°	644.7	27.3
30°-40°	463.9	19.7
40°-50°	229.9	9.7
50°-60°	179.9	7.6
60°-70°	121.8	5.2
70°-80°	63.2	2.7
80°-90°	18.2	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°	1283.7	54.4
0°-40°	1747.7	74.0
0°-60°	2157.5	91.4
0°-90°	2360.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2360.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1958	
5°	1897	177
15°	1639	462
25°	1422	645
35°	727	464
45°	293	230
55°	202	180
65°	123	122
75°	59	63
85°	16	18
90°	0	



TEST NUMBER: P584203  
CATALOG NUMBER: HCC8S25D010MW-HM82555935-81MDW

**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1957.6
2.5°	1940.0
5°	1897.0
7.5°	1836.4
10°	1764.6
12.5°	1697.8
15°	1638.7
17.5°	1583.0
20°	1533.5
22.5°	1484.1
25°	1421.9
27.5°	1332.7
30°	1206.7
32.5°	1009.1
35°	727.0
37.5°	495.7
40°	379.4
42.5°	326.8
45°	293.3
47.5°	264.6
50°	240.8
52.5°	220.0
55°	202.4
57.5°	181.7
60°	161.0
62.5°	140.3
65°	122.7
67.5°	105.2
70°	87.6
72.5°	73.3
75°	59.0
77.5°	46.2
80°	35.1
82.5°	25.5
85°	15.9
87.5°	7.9
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)