

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: P584916

Luminaire Tested: **HCC8W55D010MW-HM82555827-81MDH**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P584916  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-5)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 10/21/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC8W55D010MW-HM82555827-81MDH  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" MEDIUM DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

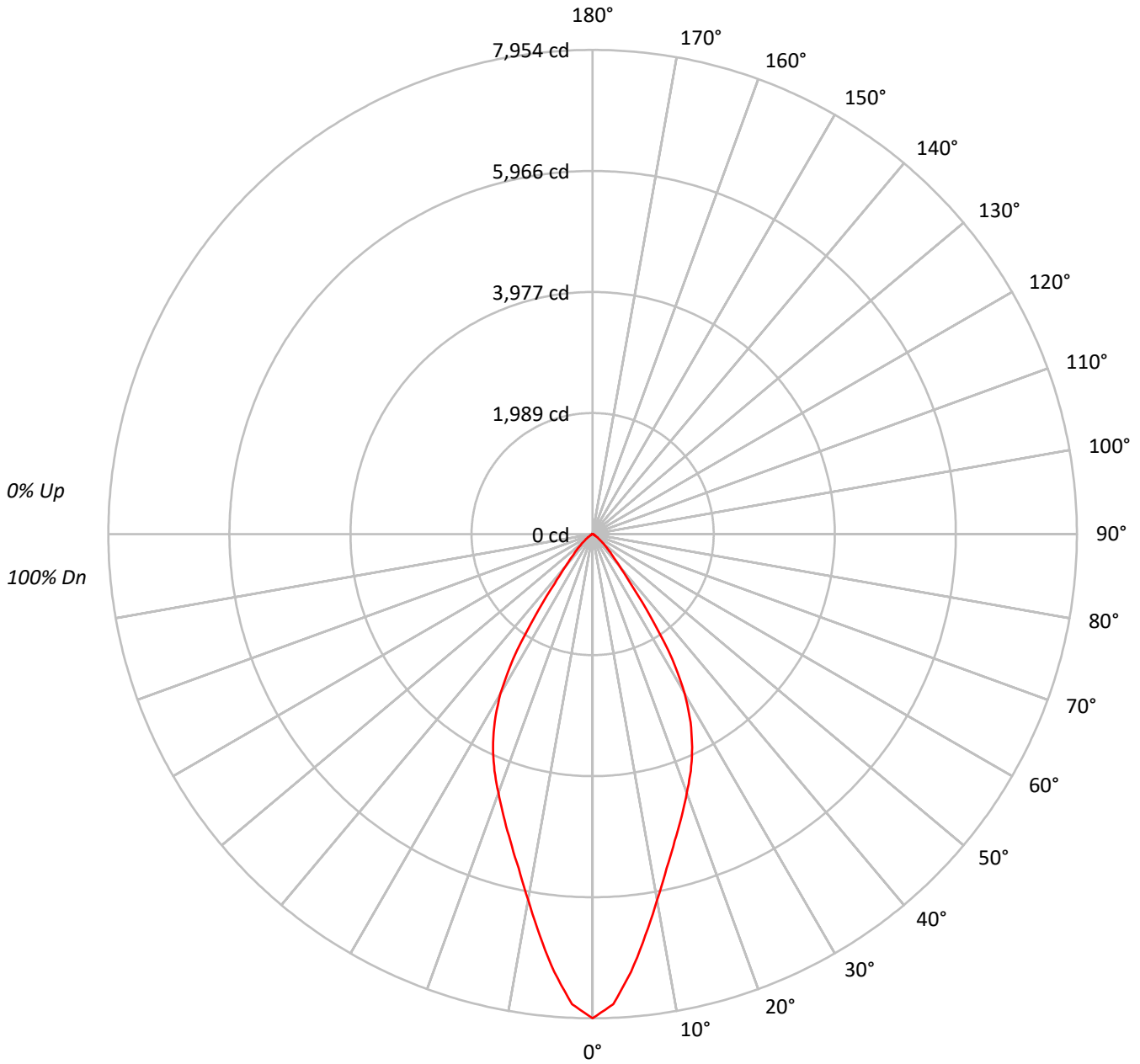
Lumens per Lamp: N/A  
Luminaire Lumens: 5363.0 lumens  
Efficiency: N/A  
Efficacy: 103.1 lumens/watt  
Spacing Criteria (0/90/45): 0.68 / 0.68 / 0.81  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

Input Watts (W): 52  
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: P584916  
CATALOG NUMBER: HCC8W55D010MW-HM82555827-81MDH

### Luminous Intensity Polar Plot



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



TEST NUMBER: P584916

CATALOG NUMBER: HCC8W55D010MW-HM82555827-81MDH

**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	114	111	108	106	111	109	106	104	105	103	101	101	99	98	97	96	95	94			
2	108	103	99	96	106	101	98	95	98	95	93	95	93	91	92	90	89	87			
3	103	96	91	87	101	95	90	87	92	88	85	90	87	84	88	85	83	81			
4	97	90	85	80	96	89	84	80	87	82	79	85	81	78	83	80	77	76			
5	93	84	79	74	91	83	78	74	82	77	73	80	76	73	78	75	72	71			
6	88	79	73	69	87	78	73	69	77	72	68	76	71	68	74	70	67	66			
7	84	75	69	64	82	74	68	64	73	68	64	71	67	64	70	66	63	62			
8	80	70	64	60	79	70	64	60	69	64	60	68	63	60	67	63	60	58			
9	76	67	61	57	75	66	61	57	65	60	56	64	60	56	63	59	56	55			
10	73	63	57	54	72	63	57	53	62	57	53	61	56	53	60	56	53	52			

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

	0°
0°	245266
5°	223504
10°	190963
15°	166535
20°	148430
25°	131666
30°	107803
35°	61902
40°	27473
45°	15987
50°	9230
55°	5269
60°	2911
65°	1853
70°	1307
75°	870
80°	639
85°	1274



TEST NUMBER: P584916  
 CATALOG NUMBER: HCC8W55D010MW-HM82555827-81MDH

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	653.6	12.2
10°-20°	1466.4	27.3
20°-30°	1755.2	32.7
30°-40°	1061.8	19.8
40°-50°	297.6	5.5
50°-60°	92.4	1.7
60°-70°	26.4	0.5
70°-80°	7.2	0.1
80°-90°	2.4	0.0
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°	3875.2	72.3
0°-40°	4937.0	92.1
0°-60°	5327.0	99.3
0°-90°	5363.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5363.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	7954	
5°	7220	654
15°	5217	1466
25°	3870	1755
35°	1644	1062
45°	367	298
55°	98	92
65°	25	26
75°	7	7
85°	4	2
90°	0	



TEST NUMBER: P584916  
CATALOG NUMBER: HCC8W55D010MW-HM82555827-81MDH

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	7953.8
2.5°	7728.6
5°	7220.5
7.5°	6646.9
10°	6098.7
12.5°	5619.5
15°	5216.6
17.5°	4860.9
20°	4523.2
22.5°	4211.0
25°	3869.8
27.5°	3484.9
30°	3027.6
32.5°	2435.9
35°	1644.4
37.5°	1023.7
40°	682.5
42.5°	490.1
45°	366.6
47.5°	268.6
50°	192.4
52.5°	134.3
55°	98.0
57.5°	65.4
60°	47.2
62.5°	32.7
65°	25.4
67.5°	18.2
70°	14.5
72.5°	7.3
75°	7.3
77.5°	3.6
80°	3.6
82.5°	3.6
85°	3.6
87.5°	0.0
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)