

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: P584972

Luminaire Tested: **HCC8W55D010MW-HM82555840-81PSMDW**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P584972  
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: HCC8W55D010MW-HM82555840-81PSMDW  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" PLASTIC TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

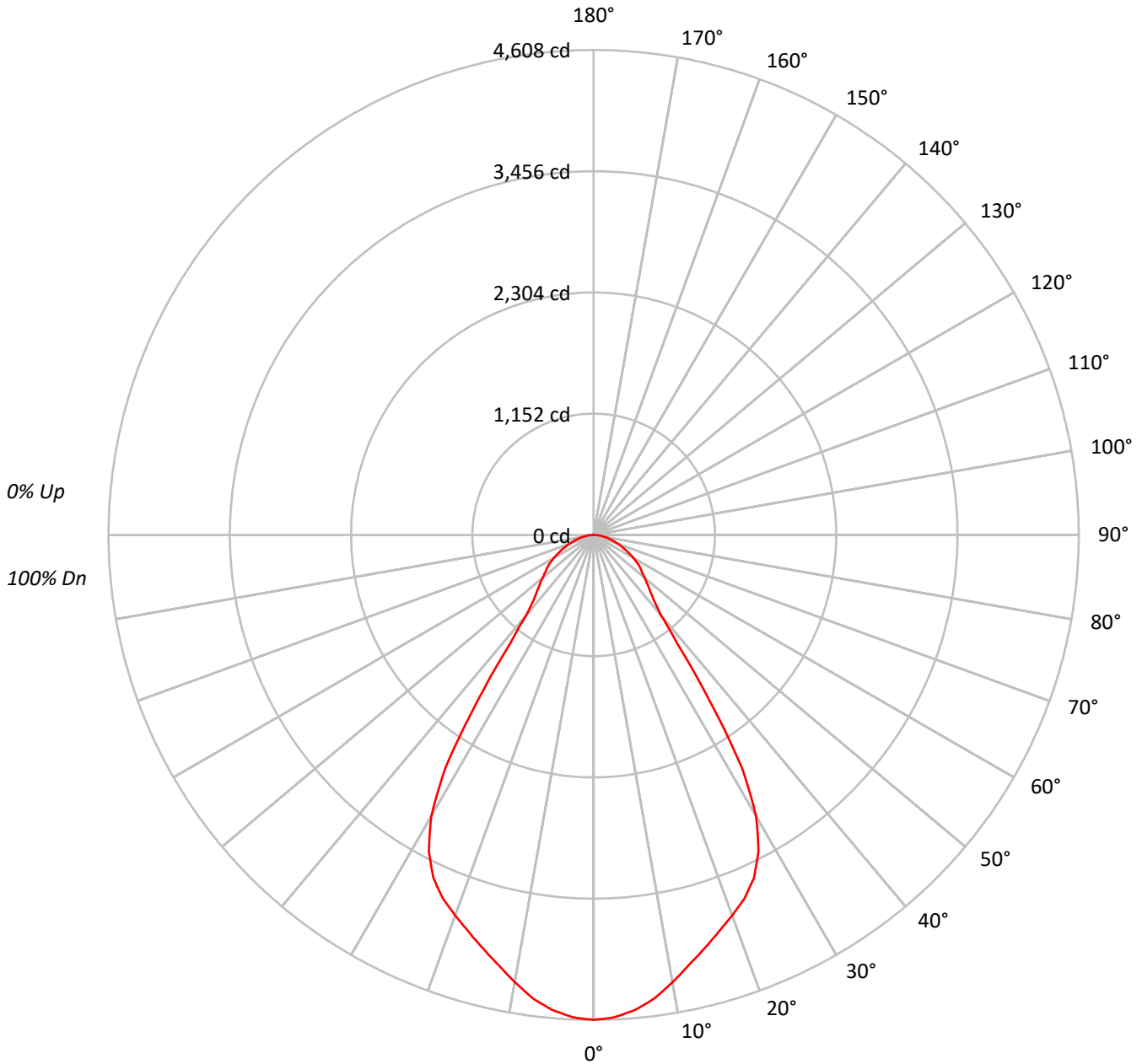
Lumens per Lamp: N/A  
Luminaire Lumens: 6053.2 lumens  
Efficiency: N/A  
Efficacy: 116.4 lumens/watt  
Spacing Criteria (0/90/45): 1.06 / 1.06 / 0.97  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

Input Watts (W): 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: P584972  
CATALOG NUMBER: HCC8W55D010MW-HM82555840-81PSMDW

### Luminous Intensity Polar Plot





TEST NUMBER: P584972

CATALOG NUMBER: HCC8W55D010MW-HM82555840-81PSMDW

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

RF	20									20									20									20									20									20
RC	80									50									30									10									0									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	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°	142084
5°	140234
10°	135102
15°	129816
20°	126227
25°	122429
30°	109861
35°	72017
40°	39819
45°	33195
50°	30266
55°	28881
60°	26858
65°	24356
70°	22017
75°	19885
80°	18060
85°	17301



TEST NUMBER: P584972

CATALOG NUMBER: HCC8W55D010MW-HM82555840-81PSMDW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	425.7	7.0
10°-20°	1147.3	19.0
20°-30°	1632.7	27.0
30°-40°	1208.4	20.0
40°-50°	598.5	9.9
50°-60°	477.7	7.9
60°-70°	331.6	5.5
70°-80°	178.7	3.0
80°-90°	52.6	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°	3205.6	53.0
0°-40°	4414.1	72.9
0°-60°	5490.2	90.7
0°-90°	6053.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6053.2	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4608	
5°	4530	426
15°	4066	1147
25°	3598	1633
35°	1913	1208
45°	761	599
55°	537	478
65°	334	332
75°	167	179
85°	49	53
90°	0	



TEST NUMBER: P584972

CATALOG NUMBER: HCC8W55D010MW-HM82555840-81PSMDW

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	4607.7
2.5°	4587.4
5°	4530.4
7.5°	4440.8
10°	4314.7
12.5°	4184.4
15°	4066.4
17.5°	3952.5
20°	3846.6
22.5°	3740.8
25°	3598.3
27.5°	3390.7
30°	3085.4
32.5°	2617.3
35°	1913.1
37.5°	1306.7
40°	989.2
42.5°	846.7
45°	761.2
47.5°	691.9
50°	630.9
52.5°	578.0
55°	537.2
57.5°	488.5
60°	435.5
62.5°	382.7
65°	333.8
67.5°	284.9
70°	244.2
72.5°	203.6
75°	166.9
77.5°	134.3
80°	101.7
82.5°	73.2
85°	48.9
87.5°	20.4
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)