

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: P584989

Luminaire Tested: **HCC8W55D010MW-HM82555927-81PSMDW**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P584989  
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-HM82555927-81PSMDW  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" PLASTIC TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

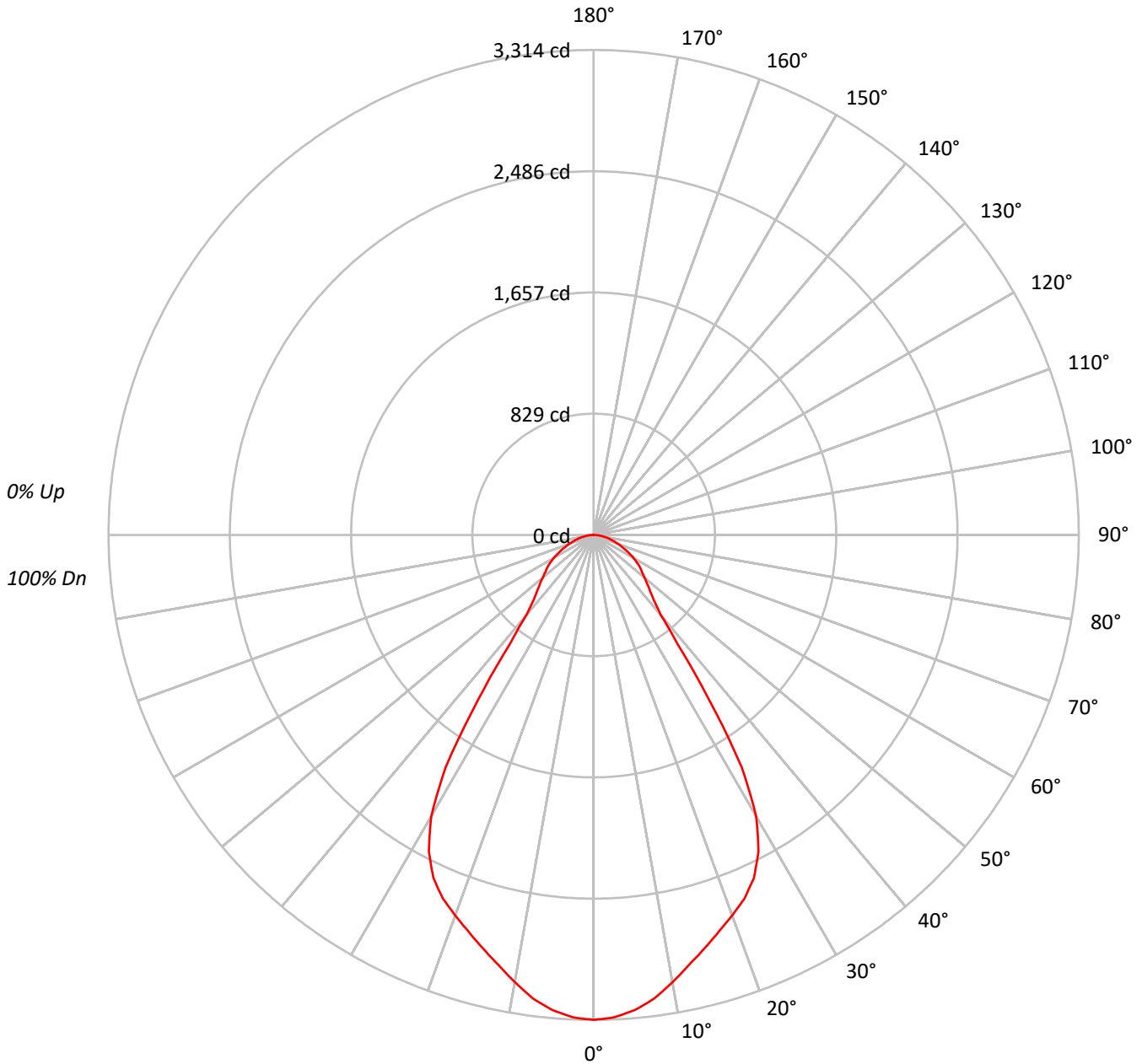
Lumens per Lamp: N/A  
Luminaire Lumens: 4353.4 lumens  
Efficiency: N/A  
Efficacy: 83.7 lumens/watt  
Spacing Criteria (0/90/45): 1.06 / 1.06 / 0.97  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

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: P584989  
CATALOG NUMBER: HCC8W55D010MW-HM82555927-81PSMDW

### Luminous Intensity Polar Plot





TEST NUMBER: P584989

CATALOG NUMBER: HCC8W55D010MW-HM82555927-81PSMDW

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

RF	20									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	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	111	108	105	102	109	106	103	100	101	99	97	98	96	94	94	93	91	89																												
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79																												
3	97	89	83	77	95	87	82	77	85	80	76	82	78	74	80	76	73	71																												
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	70	66	64																												
5	85	75	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58																												
6	80	69	62	57	78	68	61	56	67	61	56	65	60	56	64	59	55	53																												
7	75	64	57	52	74	63	57	52	62	56	51	61	55	51	60	55	51	49																												
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	45																												
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42																												
10	64	52	46	41	62	52	45	41	51	45	41	50	45	41	49	44	41	39																												

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

	0°
0°	102188
5°	100858
10°	97164
15°	93362
20°	90784
25°	88051
30°	79015
35°	51795
40°	28637
45°	23872
50°	21770
55°	20773
60°	19322
65°	17512
70°	15841
75°	14297
80°	12981
85°	12454



TEST NUMBER: P584989

CATALOG NUMBER: HCC8W55D010MW-HM82555927-81PSMDW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	306.1	7.0
10°-20°	825.1	19.0
20°-30°	1174.3	27.0
30°-40°	869.1	20.0
40°-50°	430.5	9.9
50°-60°	343.5	7.9
60°-70°	238.5	5.5
70°-80°	128.5	3.0
80°-90°	37.8	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°	2305.5	53.0
0°-40°	3174.6	72.9
0°-60°	3948.6	90.7
0°-90°	4353.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4353.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3314	
5°	3258	306
15°	2924	825
25°	2588	1174
35°	1376	869
45°	547	430
55°	386	344
65°	240	238
75°	120	129
85°	35	38
90°	0	



TEST NUMBER: P584989

CATALOG NUMBER: HCC8W55D010MW-HM82555927-81PSMDW

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3313.9
2.5°	3299.3
5°	3258.3
7.5°	3193.8
10°	3103.1
12.5°	3009.5
15°	2924.5
17.5°	2842.6
20°	2766.5
22.5°	2690.3
25°	2587.9
27.5°	2438.6
30°	2219.1
32.5°	1882.3
35°	1375.9
37.5°	939.7
40°	711.4
42.5°	609.0
45°	547.4
47.5°	497.6
50°	453.8
52.5°	415.7
55°	386.4
57.5°	351.2
60°	313.3
62.5°	275.2
65°	240.0
67.5°	204.9
70°	175.7
72.5°	146.4
75°	120.0
77.5°	96.6
80°	73.1
82.5°	52.7
85°	35.2
87.5°	14.6
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)