

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: P584084

Luminaire Tested: **HCC8W20D010MW-HM80520940-81MDW**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P584084  
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: HCC8W20D010MW-HM80520940-81MDW  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" MEDIUM DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

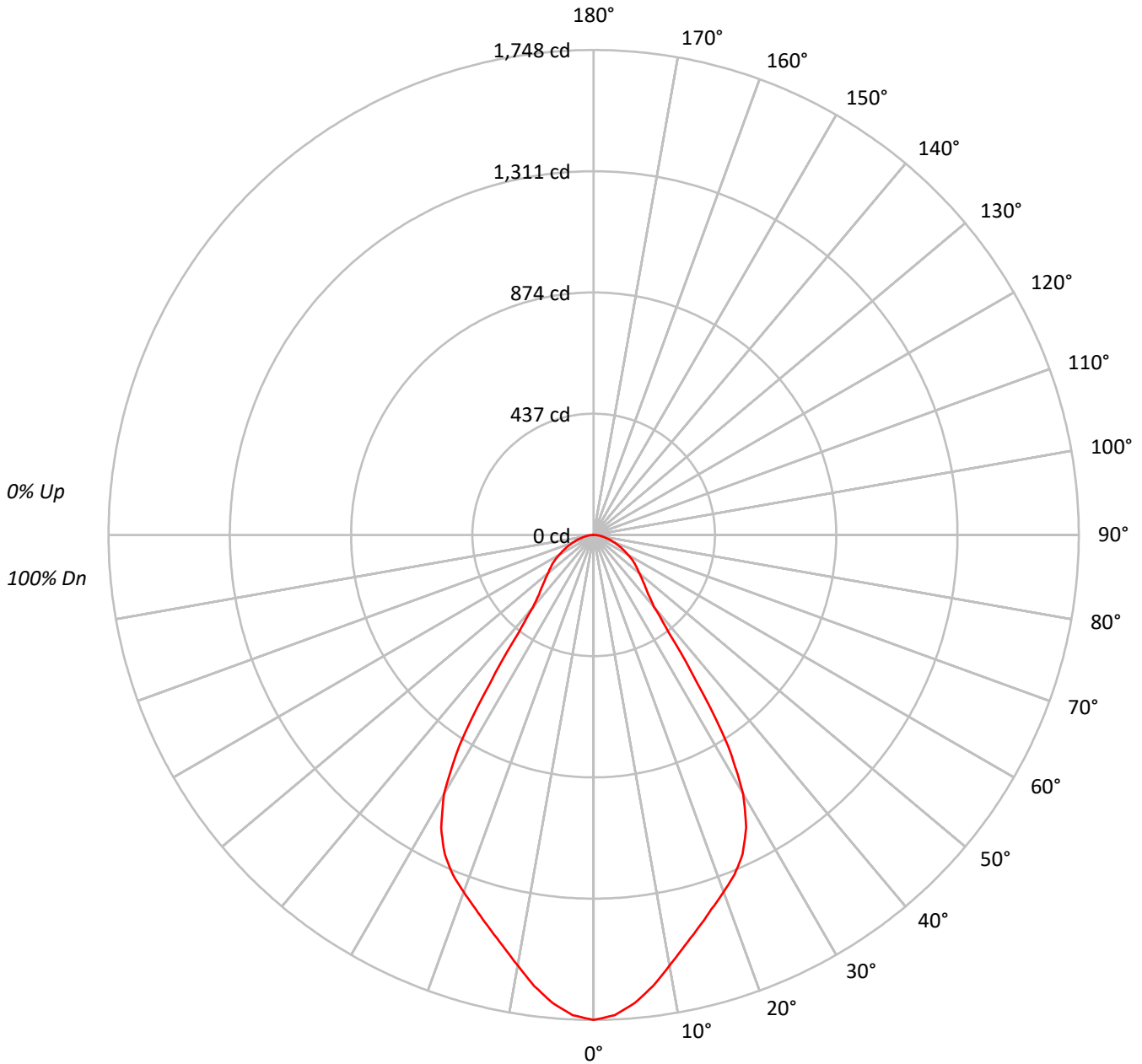
Lumens per Lamp: N/A  
Luminaire Lumens: 2108.1 lumens  
Efficiency: N/A  
Efficacy: 105.4 lumens/watt  
Spacing Criteria (0/90/45): 1 / 1 / 0.95  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

Input Watts (W): 20  
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: P584084  
CATALOG NUMBER: HCC8W20D010MW-HM80520940-81MDW

### Luminous Intensity Polar Plot





TEST NUMBER: P584084

CATALOG NUMBER: HCC8W20D010MW-HM80520940-81MDW

**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
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°	53905
5°	52436
10°	49341
15°	46718
20°	44941
25°	43204
30°	38370
35°	24439
40°	13638
45°	11421
50°	10314
55°	9720
60°	8862
65°	7997
70°	7050
75°	6279
80°	5558
85°	5024



TEST NUMBER: P584084  
 CATALOG NUMBER: HCC8W20D010MW-HM80520940-81MDW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	157.9	7.5
10°-20°	412.7	19.6
20°-30°	575.7	27.3
30°-40°	414.3	19.7
40°-50°	205.3	9.7
50°-60°	160.6	7.6
60°-70°	108.7	5.2
70°-80°	56.5	2.7
80°-90°	16.3	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°	1146.4	54.4
0°-40°	1560.7	74.0
0°-60°	1926.6	91.4
0°-90°	2108.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2108.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1748	
5°	1694	158
15°	1463	413
25°	1270	576
35°	649	414
45°	262	205
55°	181	161
65°	110	109
75°	53	56
85°	14	16
90°	0	



TEST NUMBER: P584084  
CATALOG NUMBER: HCC8W20D010MW-HM80520940-81MDW

**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1748.1
2.5°	1732.5
5°	1694.0
7.5°	1639.9
10°	1575.8
12.5°	1516.0
15°	1463.4
17.5°	1413.6
20°	1369.5
22.5°	1325.3
25°	1269.8
27.5°	1190.0
30°	1077.6
32.5°	901.0
35°	649.2
37.5°	442.8
40°	338.8
42.5°	291.8
45°	261.9
47.5°	236.3
50°	215.0
52.5°	196.4
55°	180.8
57.5°	162.3
60°	143.7
62.5°	125.3
65°	109.6
67.5°	94.0
70°	78.2
72.5°	65.5
75°	52.7
77.5°	41.3
80°	31.3
82.5°	22.8
85°	14.2
87.5°	7.1
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)