

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: P584281

Luminaire Tested: **HCC8S30D010MW-HM82555835-81WDW**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P584281  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-9)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 10/21/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC8S30D010MW-HM82555835-81WDW  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

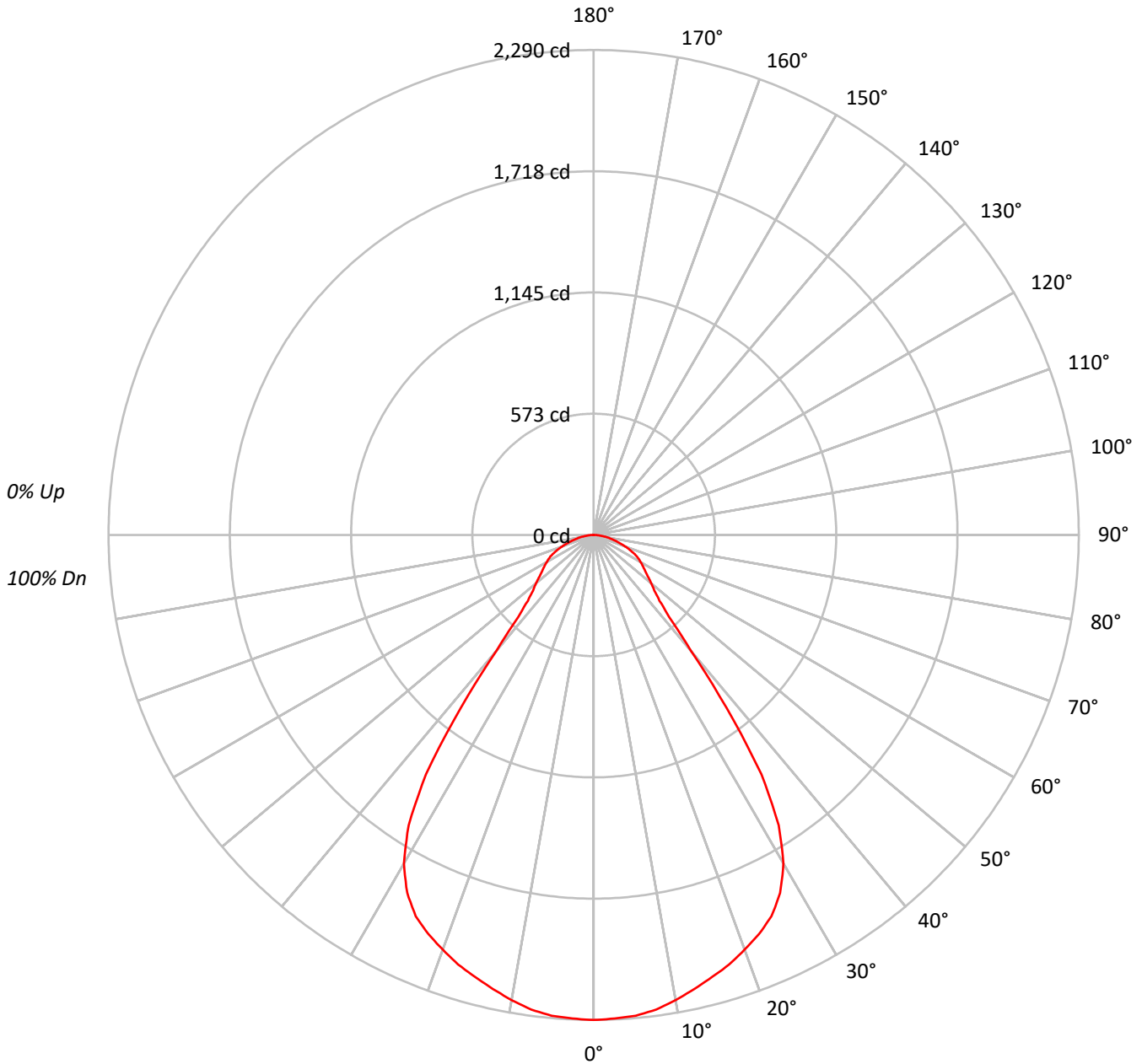
Lumens per Lamp: N/A  
Luminaire Lumens: 3532.6 lumens  
Efficiency: N/A  
Efficacy: 126.2 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.06  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

Input Watts (W): 28  
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: P584281  
CATALOG NUMBER: HCC8S30D010MW-HM82555835-81WDW

### Luminous Intensity Polar Plot





TEST NUMBER: P584281

CATALOG NUMBER: HCC8S30D010MW-HM82555835-81WDW

**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	111	108	104	101	109	105	102	100	101	99	96	97	95	94	94	92	91	89		
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79		
3	97	88	82	76	94	87	81	76	84	79	75	81	77	73	79	75	72	70		
4	90	80	73	68	88	79	73	67	77	71	67	75	70	66	73	68	65	63		
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	63	59	57		
6	79	68	61	55	77	67	60	55	65	59	55	64	58	54	62	58	54	52		
7	74	63	56	50	73	62	55	50	61	54	50	59	54	50	58	53	49	48		
8	70	58	51	46	69	58	51	46	57	50	46	55	50	46	54	49	45	44		
9	66	54	47	43	65	54	47	42	53	47	42	52	46	42	51	46	42	40		
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	37		

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

	0°
0°	70624
5°	70538
10°	69838
15°	69004
20°	68367
25°	67596
30°	63782
35°	51938
40°	28693
45°	19153
50°	16987
55°	15951
60°	15745
65°	15607
70°	14101
75°	12605
80°	11028
85°	9765



TEST NUMBER: P584281  
 CATALOG NUMBER: HCC8S30D010MW-HM82555835-81WDW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	216.0	6.1
10°-20°	610.3	17.3
20°-30°	906.9	25.7
30°-40°	816.7	23.1
40°-50°	362.1	10.2
50°-60°	268.2	7.6
60°-70°	208.5	5.9
70°-80°	113.1	3.2
80°-90°	30.9	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°	1733.2	49.1
0°-40°	2549.8	72.2
0°-60°	3180.1	90.0
0°-90°	3532.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3532.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2290	
5°	2279	216
15°	2162	610
25°	1987	907
35°	1380	817
45°	439	362
55°	297	268
65°	214	209
75°	106	113
85°	28	31
90°	0	



TEST NUMBER: P584281  
CATALOG NUMBER: HCC8S30D010MW-HM82555835-81WDW

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2290.3
2.5°	2285.7
5°	2278.8
7.5°	2260.4
10°	2230.4
12.5°	2196.0
15°	2161.5
17.5°	2127.0
20°	2083.4
22.5°	2039.6
25°	1986.7
27.5°	1906.3
30°	1791.3
32.5°	1625.7
35°	1379.7
37.5°	1030.1
40°	712.8
42.5°	526.6
45°	439.2
47.5°	388.6
50°	354.1
52.5°	322.0
55°	296.7
57.5°	276.0
60°	255.3
62.5°	236.8
65°	213.9
67.5°	186.3
70°	156.4
72.5°	131.0
75°	105.8
77.5°	82.8
80°	62.1
82.5°	43.6
85°	27.6
87.5°	11.5
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)