

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: P593656

Luminaire Tested: **HCC8W30D010SL-HM82555850-81WDH**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P593656  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-8)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 10/21/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC8W30D010SL-HM82555850-81WDH  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

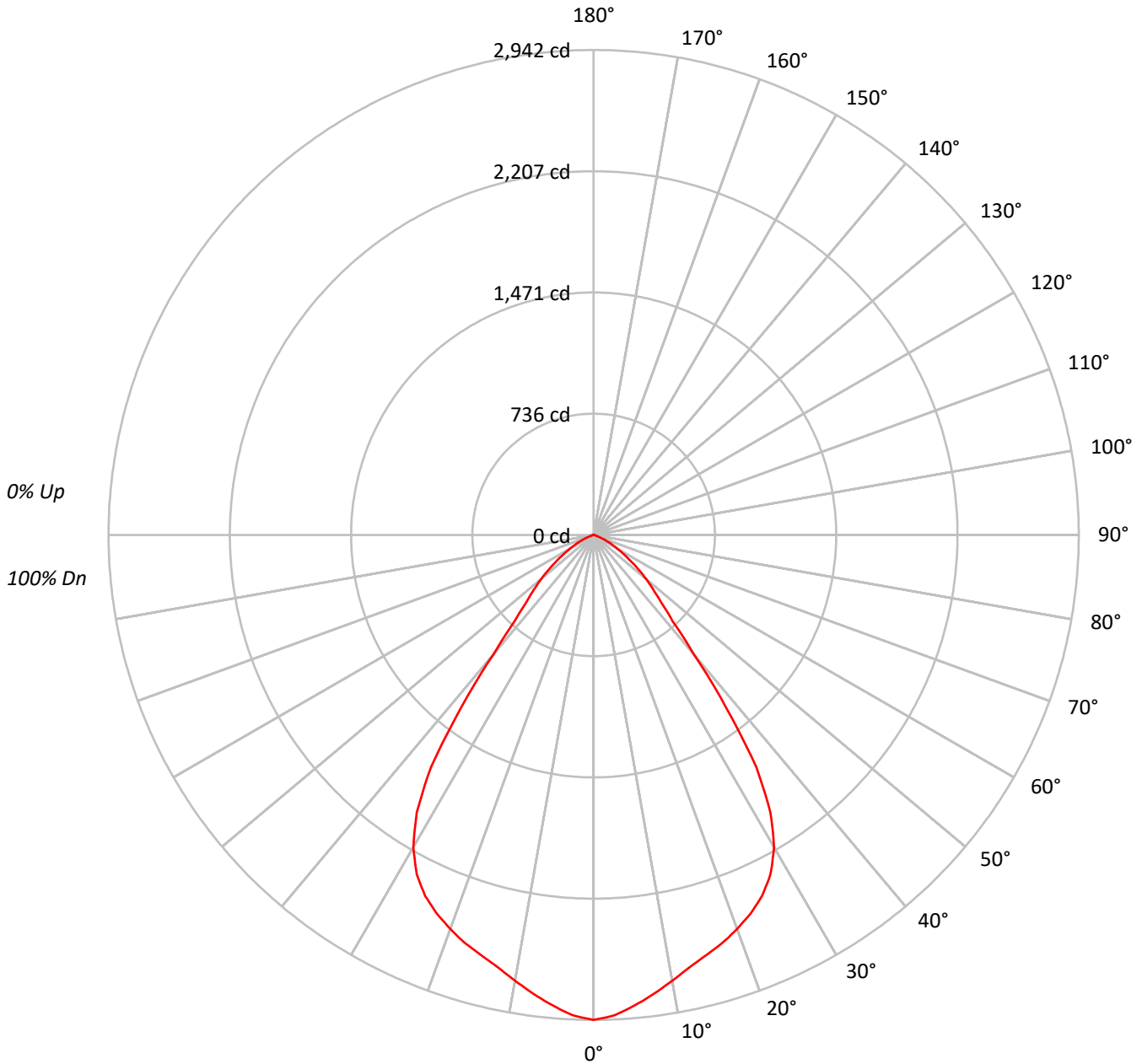
Lumens per Lamp: N/A  
Luminaire Lumens: 3963.0 lumens  
Efficiency: N/A  
Efficacy: 141.5 lumens/watt  
Spacing Criteria (0/90/45): 1.12 / 1.12 / 1.06  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

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: P593656  
CATALOG NUMBER: HCC8W30D010SL-HM82555850-81WDH

### Luminous Intensity Polar Plot





TEST NUMBER: P593656

CATALOG NUMBER: HCC8W30D010SL-HM82555850-81WDH

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

RF	20									20									20									20									
RC	80									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	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	92																			
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	85	83																			
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	75																			
4	93	84	78	73	91	83	77	72	81	76	72	79	74	71	77	73	70	68																			
5	87	78	71	66	86	77	70	66	75	69	65	73	68	64	71	67	64	62																			
6	82	72	65	60	80	71	64	60	69	64	59	68	63	59	66	62	58	57																			
7	77	67	60	55	76	66	59	55	64	59	54	63	58	54	62	57	54	52																			
8	73	62	55	50	71	61	55	50	60	54	50	59	54	50	58	53	49	48																			
9	69	58	51	46	67	57	51	46	56	50	46	55	50	46	54	49	46	44																			
10	65	54	47	43	64	53	47	43	53	47	43	52	46	43	51	46	42	41																			

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

	0°
0°	90730
5°	88684
10°	85964
15°	84225
20°	83469
25°	82219
30°	77886
35°	64714
40°	38108
45°	25206
50°	19837
55°	14602
60°	10139
65°	6180
70°	2687
75°	1191
80°	888
85°	0



TEST NUMBER: P593656  
 CATALOG NUMBER: HCC8W30D010SL-HM82555850-81WDH

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	269.8	6.8
10°-20°	745.9	18.8
20°-30°	1105.1	27.9
30°-40°	1021.2	25.8
40°-50°	470.8	11.9
50°-60°	247.7	6.2
60°-70°	87.5	2.2
70°-80°	13.8	0.3
80°-90°	1.4	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°	2120.7	53.5
0°-40°	3141.9	79.3
0°-60°	3860.4	97.4
0°-90°	3963.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3963.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2942	
5°	2865	270
15°	2638	746
25°	2416	1105
35°	1719	1021
45°	578	471
55°	272	248
65°	85	88
75°	10	14
85°	0	1
90°	0	



TEST NUMBER: P593656

CATALOG NUMBER: HCC8W30D010SL-HM82555850-81WDH

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2942.3
2.5°	2917.3
5°	2865.0
7.5°	2807.7
10°	2745.4
12.5°	2685.6
15°	2638.3
17.5°	2595.9
20°	2543.6
22.5°	2486.3
25°	2416.5
27.5°	2321.9
30°	2187.4
32.5°	1995.5
35°	1719.1
37.5°	1320.4
40°	946.7
42.5°	710.1
45°	578.0
47.5°	490.8
50°	413.5
52.5°	338.9
55°	271.6
57.5°	214.3
60°	164.4
62.5°	124.6
65°	84.7
67.5°	49.8
70°	29.8
72.5°	17.5
75°	10.0
77.5°	7.5
80°	5.0
82.5°	2.5
85°	0.0
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)