

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: P584339

Luminaire Tested: **HCC8S30D010BZ-HM82555935-81MDW**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P584339  
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: HCC8S30D010BZ-HM82555935-81MDW  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" MEDIUM DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

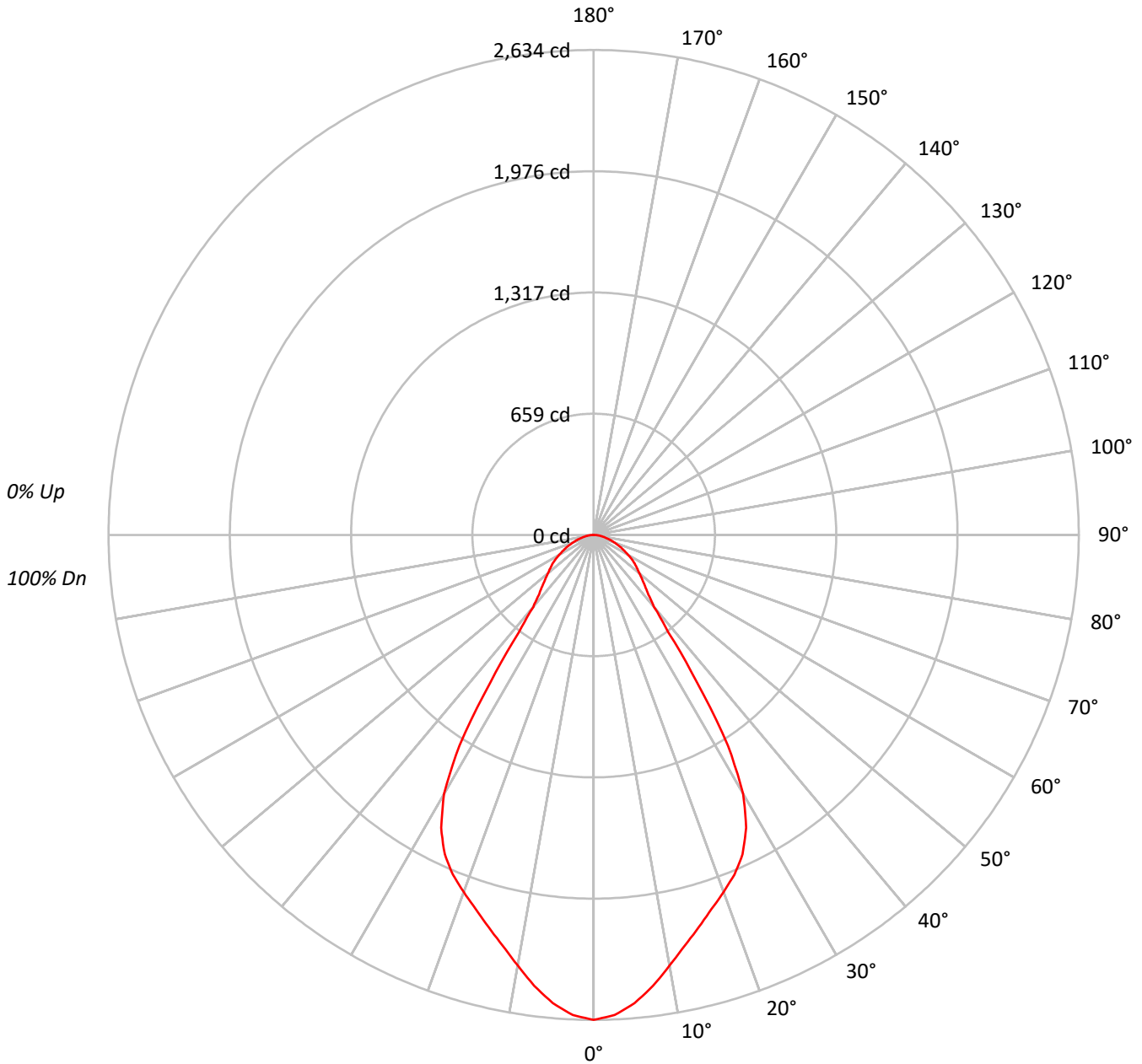
Lumens per Lamp: N/A  
Luminaire Lumens: 3176.3 lumens  
Efficiency: N/A  
Efficacy: 113.4 lumens/watt  
Spacing Criteria (0/90/45): 1 / 1 / 0.95  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

Input Watts (W): 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: P584339  
CATALOG NUMBER: HCC8S30D010BZ-HM82555935-81MDW

### Luminous Intensity Polar Plot





TEST NUMBER: P584339

CATALOG NUMBER: HCC8S30D010BZ-HM82555935-81MDW

**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	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90	90	90	90
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	80	80	80	80
3	98	89	83	78	95	88	82	78	85	80	76	83	78	75	80	77	74	72	72	72	72
4	91	82	75	70	89	81	74	69	78	73	69	76	72	68	74	70	67	65	65	65	65
5	86	76	68	63	84	75	68	63	73	67	62	71	66	62	69	65	61	59	59	59	59
6	81	70	63	58	79	69	62	57	67	61	57	66	61	56	64	60	56	54	54	54	54
7	76	65	58	53	74	64	57	53	63	57	52	62	56	52	60	55	52	50	50	50	50
8	72	61	54	49	70	60	53	49	59	53	48	58	52	48	57	52	48	46	46	46	46
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43	43	43	43
10	64	53	46	42	63	53	46	42	52	46	42	51	46	42	50	45	42	40	40	40	40

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

	0°
0°	81220
5°	79007
10°	74344
15°	70389
20°	67711
25°	65095
30°	57815
35°	36820
40°	20546
45°	17208
50°	15538
55°	14645
60°	13358
65°	12054
70°	10630
75°	9448
80°	8382
85°	7571



TEST NUMBER: P584339  
 CATALOG NUMBER: HCC8S30D010BZ-HM82555935-81MDW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	237.9	7.5
10°-20°	621.8	19.6
20°-30°	867.5	27.3
30°-40°	624.2	19.7
40°-50°	309.3	9.7
50°-60°	242.0	7.6
60°-70°	163.9	5.2
70°-80°	85.1	2.7
80°-90°	24.5	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°	1727.3	54.4
0°-40°	2351.5	74.0
0°-60°	2902.9	91.4
0°-90°	3176.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3176.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2634	
5°	2552	238
15°	2205	622
25°	1913	868
35°	978	624
45°	395	309
55°	272	242
65°	165	164
75°	79	85
85°	21	25
90°	0	



TEST NUMBER: P584339  
CATALOG NUMBER: HCC8S30D010BZ-HM82555935-81MDW

**CANDELA DISTRIBUTION (FULL):**

0°	
0°	2633.9
2.5°	2610.3
5°	2552.4
7.5°	2470.9
10°	2374.3
12.5°	2284.3
15°	2204.9
17.5°	2129.9
20°	2063.4
22.5°	1996.9
25°	1913.2
27.5°	1793.1
30°	1623.7
32.5°	1357.7
35°	978.1
37.5°	667.0
40°	510.4
42.5°	439.7
45°	394.6
47.5°	356.1
50°	323.9
52.5°	295.9
55°	272.4
57.5°	244.5
60°	216.6
62.5°	188.7
65°	165.2
67.5°	141.6
70°	117.9
72.5°	98.7
75°	79.3
77.5°	62.2
80°	47.2
82.5°	34.4
85°	21.4
87.5°	10.7
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)