

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: P584264

Luminaire Tested: **HCC8S30D010BZ-HM82555830-81WDW**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P584264  
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: HCC8S30D010BZ-HM82555830-81WDW  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

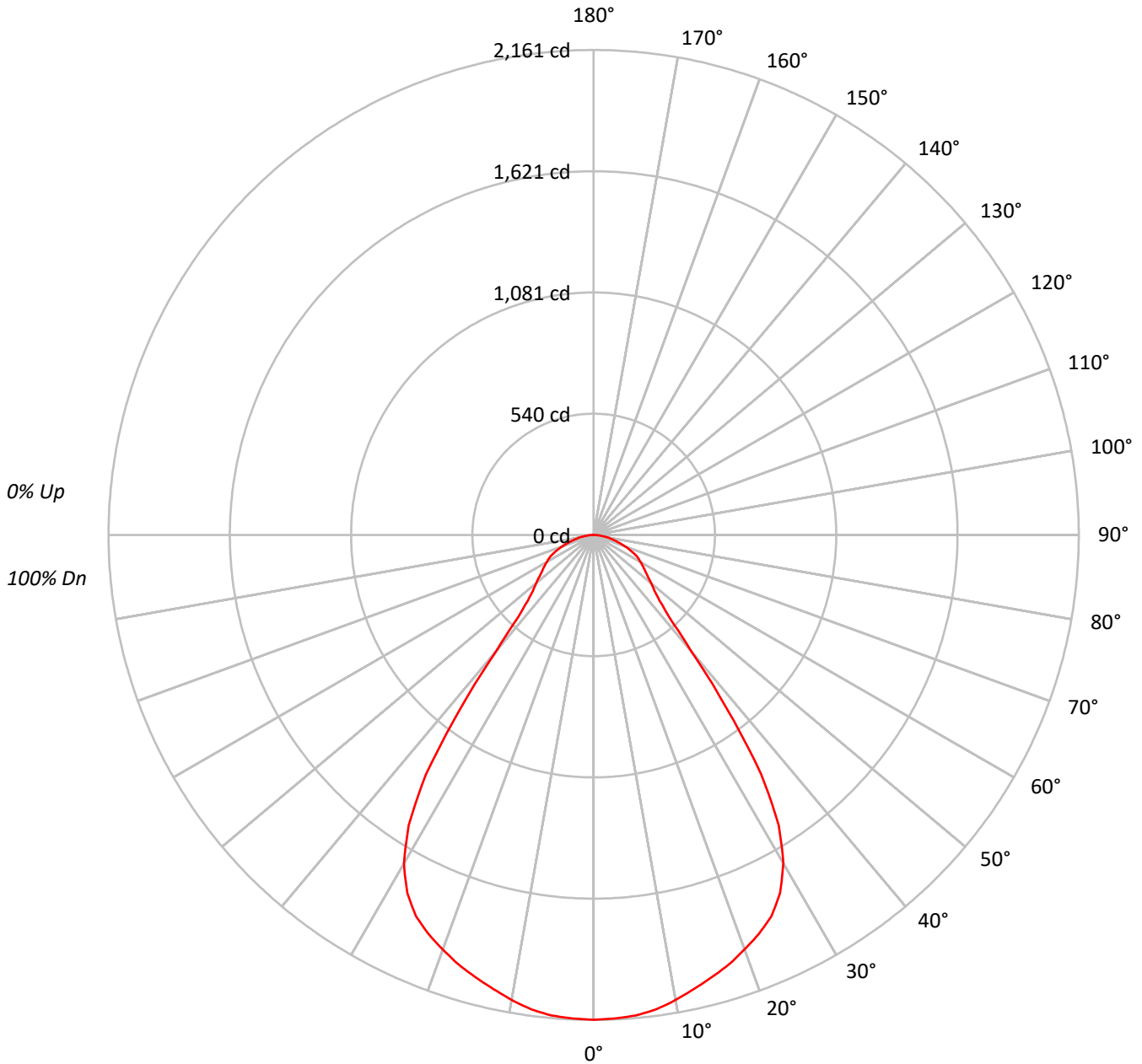
Lumens per Lamp: N/A  
Luminaire Lumens: 3332.7 lumens  
Efficiency: N/A  
Efficacy: 119.0 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.06  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

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: P584264  
CATALOG NUMBER: HCC8S30D010BZ-HM82555830-81WDW

### Luminous Intensity Polar Plot





TEST NUMBER: P584264  
 CATALOG NUMBER: HCC8S30D010BZ-HM82555830-81WDW

**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	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	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°	66628
5°	66542
10°	65887
15°	65096
20°	64495
25°	63768
30°	60172
35°	48998
40°	27071
45°	18072
50°	16028
55°	15048
60°	14851
65°	14724
70°	13308
75°	11890
80°	10406
85°	9199



TEST NUMBER: P584264  
 CATALOG NUMBER: HCC8S30D010BZ-HM82555830-81WDW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	203.7	6.1
10°-20°	575.8	17.3
20°-30°	855.5	25.7
30°-40°	770.5	23.1
40°-50°	341.6	10.2
50°-60°	253.0	7.6
60°-70°	196.7	5.9
70°-80°	106.7	3.2
80°-90°	29.2	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°	1635.0	49.1
0°-40°	2405.5	72.2
0°-60°	3000.1	90.0
0°-90°	3332.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3332.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2161	
5°	2150	204
15°	2039	576
25°	1874	856
35°	1302	770
45°	414	342
55°	280	253
65°	202	197
75°	100	107
85°	26	29
90°	0	



TEST NUMBER: P584264  
CATALOG NUMBER: HCC8S30D010BZ-HM82555830-81WDW

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2160.7
2.5°	2156.3
5°	2149.7
7.5°	2132.4
10°	2104.2
12.5°	2071.7
15°	2039.1
17.5°	2006.6
20°	1965.4
22.5°	1924.2
25°	1874.2
27.5°	1798.4
30°	1689.9
32.5°	1533.7
35°	1301.6
37.5°	971.9
40°	672.5
42.5°	496.8
45°	414.4
47.5°	366.6
50°	334.1
52.5°	303.7
55°	279.9
57.5°	260.3
60°	240.8
62.5°	223.4
65°	201.8
67.5°	175.7
70°	147.6
72.5°	123.7
75°	99.8
77.5°	78.1
80°	58.6
82.5°	41.3
85°	26.0
87.5°	10.8
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)