

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: P580321

Luminaire Tested: **HCC4W30D010BZ-HM43040840-41WDW**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P580321  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-9)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/9/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC4W30D010BZ-HM43040840-41WDW  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

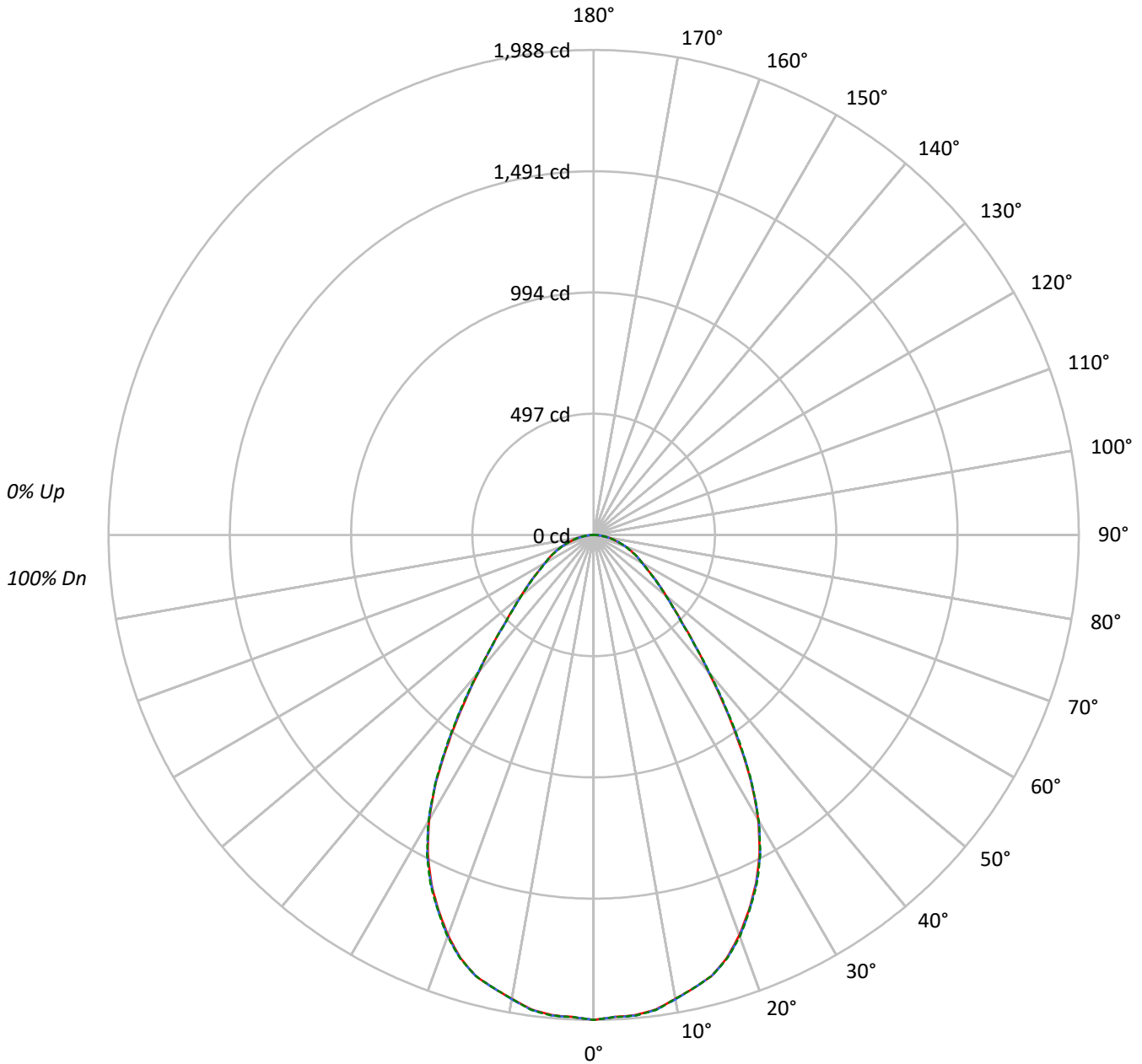
Lumens per Lamp: N/A  
Luminaire Lumens: 3067.7 lumens  
Efficiency: N/A  
Efficacy: 109.6 lumens/watt  
Spacing Criteria (0/90/45): 1.06 / 1.07 / 1.04  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

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: P580321  
CATALOG NUMBER: HCC4W30D010BZ-HM43040840-41WDW

### Luminous Intensity Polar Plot





TEST NUMBER: P580321

CATALOG NUMBER: HCC4W30D010BZ-HM43040840-41WDW

**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
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	94	92	90	89			89
2	103	97	91	87	101	95	90	86	91	87	84	88	85	82	85	83	80	78			78
3	96	87	81	76	94	86	80	75	83	78	74	81	76	72	78	74	71	69			69
4	90	80	72	67	87	78	72	66	76	70	66	74	69	65	72	68	64	62			62
5	84	73	65	60	82	72	65	59	70	64	59	68	63	58	66	62	58	56			56
6	78	67	59	54	77	66	59	54	64	58	53	63	57	53	61	56	53	51			51
7	73	62	54	49	72	61	54	49	60	53	49	58	53	48	57	52	48	46			46
8	69	57	50	45	68	57	50	45	55	49	45	54	49	44	53	48	44	42			42
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	45	41	39			39
10	61	50	43	38	60	49	43	38	48	42	38	48	42	38	47	42	38	36			36

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

	0°	45°	90°
0°	245236	245236	245236
5°	244650	244897	244897
10°	241805	242068	241805
15°	238908	238908	238908
20°	229104	229642	229918
25°	214298	214570	215128
30°	192020	192590	192590
35°	155893	157127	157428
40°	117655	118315	118637
45°	90114	89765	89765
50°	74243	73859	73859
55°	63740	63288	63288
60°	56887	56344	56344
65°	53469	53469	53469
70°	49768	49768	49768
75°	45084	46132	45084
80°	42406	40914	42406
85°	34956	34956	34956



TEST NUMBER: P580321  
 CATALOG NUMBER: HCC4W30D010BZ-HM43040840-41WDW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	187.3	6.1
10°-20°	524.2	17.1
20°-30°	720.4	23.5
30°-40°	647.7	21.1
40°-50°	409.3	13.3
50°-60°	267.2	8.7
60°-70°	181.0	5.9
70°-80°	101.9	3.3
80°-90°	28.6	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°	1431.9	46.7
0°-40°	2079.6	67.8
0°-60°	2756.1	89.8
0°-90°	3067.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3067.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1988	1988	1988	1988	1988	
5°	1976	1976	1978	1978	1978	187
15°	1871	1871	1871	1871	1871	524
25°	1575	1577	1577	1581	1581	719
35°	1035	1040	1044	1048	1046	645
45°	517	515	515	515	515	410
55°	296	296	294	296	294	268
65°	183	183	183	183	183	182
75°	95	97	97	97	95	101
85°	25	25	25	25	25	29
90°	0	0	0	0	0	



TEST NUMBER: P580321

CATALOG NUMBER: HCC4W30D010BZ-HM43040840-41WDW

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1988.2	1988.2	1988.2	1988.2	1988.2
2.5°	1977.9	1977.9	1977.9	1977.9	1977.9
5°	1975.9	1975.9	1977.9	1977.9	1977.9
7.5°	1961.5	1963.5	1963.5	1963.5	1963.5
10°	1930.6	1930.6	1932.7	1932.7	1930.6
12.5°	1901.8	1901.8	1901.8	1903.8	1901.8
15°	1870.9	1870.9	1870.9	1870.9	1870.9
17.5°	1817.4	1819.5	1819.5	1819.5	1819.5
20°	1745.4	1749.5	1749.5	1751.6	1751.6
22.5°	1663.0	1665.2	1667.2	1669.2	1667.2
25°	1574.6	1576.6	1576.6	1580.7	1580.7
27.5°	1471.6	1473.7	1477.8	1477.8	1477.8
30°	1348.2	1350.2	1352.2	1352.2	1352.2
32.5°	1202.0	1202.0	1206.2	1208.2	1206.2
35°	1035.3	1039.5	1043.5	1047.7	1045.5
37.5°	876.8	881.0	883.0	883.0	885.0
40°	730.7	734.8	734.8	739.0	736.8
42.5°	615.4	613.4	613.4	617.5	615.4
45°	516.6	514.6	514.6	514.6	514.6
47.5°	444.5	442.5	442.5	442.5	442.5
50°	386.9	384.9	384.9	384.9	384.9
52.5°	339.6	337.5	337.5	337.5	335.5
55°	296.4	296.4	294.3	296.4	294.3
57.5°	257.3	257.3	257.3	257.3	257.3
60°	230.6	228.4	228.4	228.4	228.4
62.5°	205.9	205.9	205.9	205.9	205.9
65°	183.2	183.2	183.2	183.2	183.2
67.5°	160.5	158.5	160.5	160.5	158.5
70°	138.0	135.8	138.0	138.0	138.0
72.5°	115.3	115.3	115.3	117.3	115.3
75°	94.6	96.8	96.8	96.8	94.6
77.5°	76.1	78.2	76.1	76.1	76.1
80°	59.7	57.6	57.6	57.6	59.7
82.5°	41.2	41.2	41.2	41.2	41.2
85°	24.7	24.7	24.7	24.7	24.7
87.5°	10.3	10.3	10.3	10.3	10.3
90°	0.0	0.0	0.0	0.0	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°    - - 45°-225°    - - - - 90°-270°

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)