

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: P580274

Luminaire Tested: **HCC4S30D010BZ-HM43040830-41WDWB**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P580274  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-10)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/9/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC4S30D010BZ-HM43040830-41WDWB  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, WHITE BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

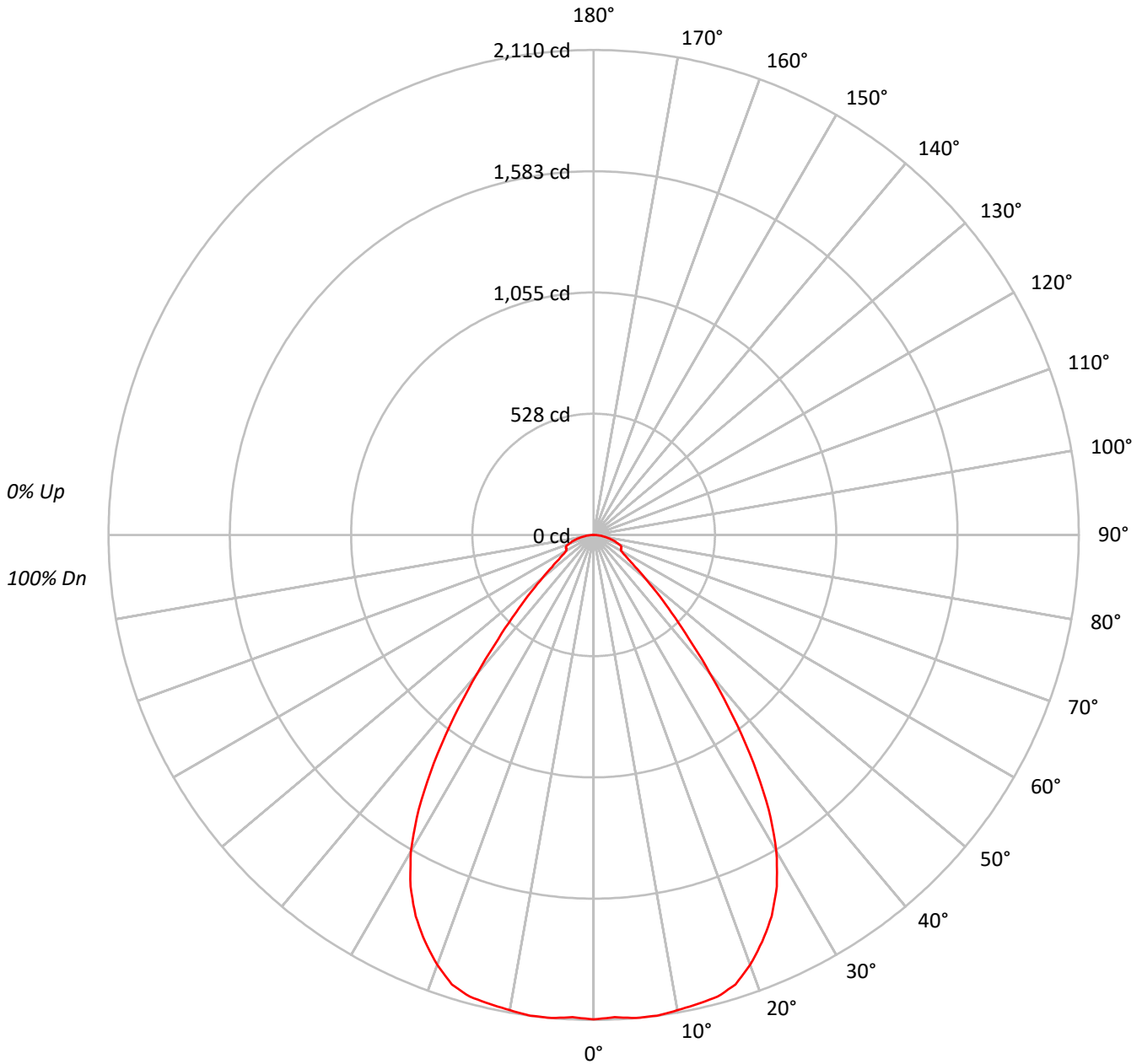
Lumens per Lamp: N/A  
Luminaire Lumens: 3166.8 lumens  
Efficiency: N/A  
Efficacy: 113.1 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.14 / 1.07  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

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: P580274  
CATALOG NUMBER: HCC4S30D010BZ-HM43040830-41WDWB

### Luminous Intensity Polar Plot





TEST NUMBER: P580274  
 CATALOG NUMBER: HCC4S30D010BZ-HM43040830-41WDWB

**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	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90			90
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	80			80
3	98	89	83	78	95	88	82	78	85	80	76	83	78	75	80	77	74	72			72
4	91	82	75	70	89	81	74	69	78	73	69	76	72	68	74	70	67	65			65
5	86	75	68	63	84	74	68	63	72	67	62	71	65	61	69	64	61	59			59
6	80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	59	56	54			54
7	76	64	57	52	74	64	57	52	62	56	52	61	56	51	60	55	51	49			49
8	71	60	53	48	70	59	53	48	58	52	48	57	51	47	56	51	47	46			46
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42			42
10	64	52	46	41	62	52	45	41	51	45	41	50	45	41	49	44	41	39			39

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

	0°
0°	259988
5°	261216
10°	263009
15°	265648
20°	261211
25°	249207
30°	226417
35°	182620
40°	126720
45°	83189
50°	55745
55°	39655
60°	33895
65°	38934
70°	41762
75°	40223
80°	36226
85°	33399



TEST NUMBER: P580274  
 CATALOG NUMBER: HCC4S30D010BZ-HM43040830-41WDWB

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	201.1	6.3
10°-20°	584.4	18.5
20°-30°	835.0	26.4
30°-40°	745.9	23.6
40°-50°	382.6	12.1
50°-60°	173.9	5.5
60°-70°	129.7	4.1
70°-80°	88.3	2.8
80°-90°	26.2	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°	1620.4	51.2
0°-40°	2366.3	74.7
0°-60°	2922.7	92.3
0°-90°	3166.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3166.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2108	
5°	2110	201
15°	2080	584
25°	1831	835
35°	1213	746
45°	477	383
55°	184	174
65°	133	130
75°	84	88
85°	24	26
90°	0	



TEST NUMBER: P580274  
CATALOG NUMBER: HCC4S30D010BZ-HM43040830-41WDWB

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2107.8
2.5°	2099.9
5°	2109.7
7.5°	2109.7
10°	2099.9
12.5°	2090.1
15°	2080.3
17.5°	2050.8
20°	1990.0
22.5°	1915.5
25°	1831.1
27.5°	1725.1
30°	1589.7
32.5°	1417.0
35°	1212.8
37.5°	995.0
40°	787.0
42.5°	614.3
45°	476.9
47.5°	372.9
50°	290.5
52.5°	227.6
55°	184.4
57.5°	155.0
60°	137.4
62.5°	133.4
65°	133.4
67.5°	129.5
70°	115.8
72.5°	100.1
75°	84.4
77.5°	66.8
80°	51.0
82.5°	37.3
85°	23.6
87.5°	9.8
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)