

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: P580336

Luminaire Tested: **HCC4S30D010MW-HM43040927-41MDW**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P580336  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-6)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/9/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC4S30D010MW-HM43040927-41MDW  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" MEDIUM DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

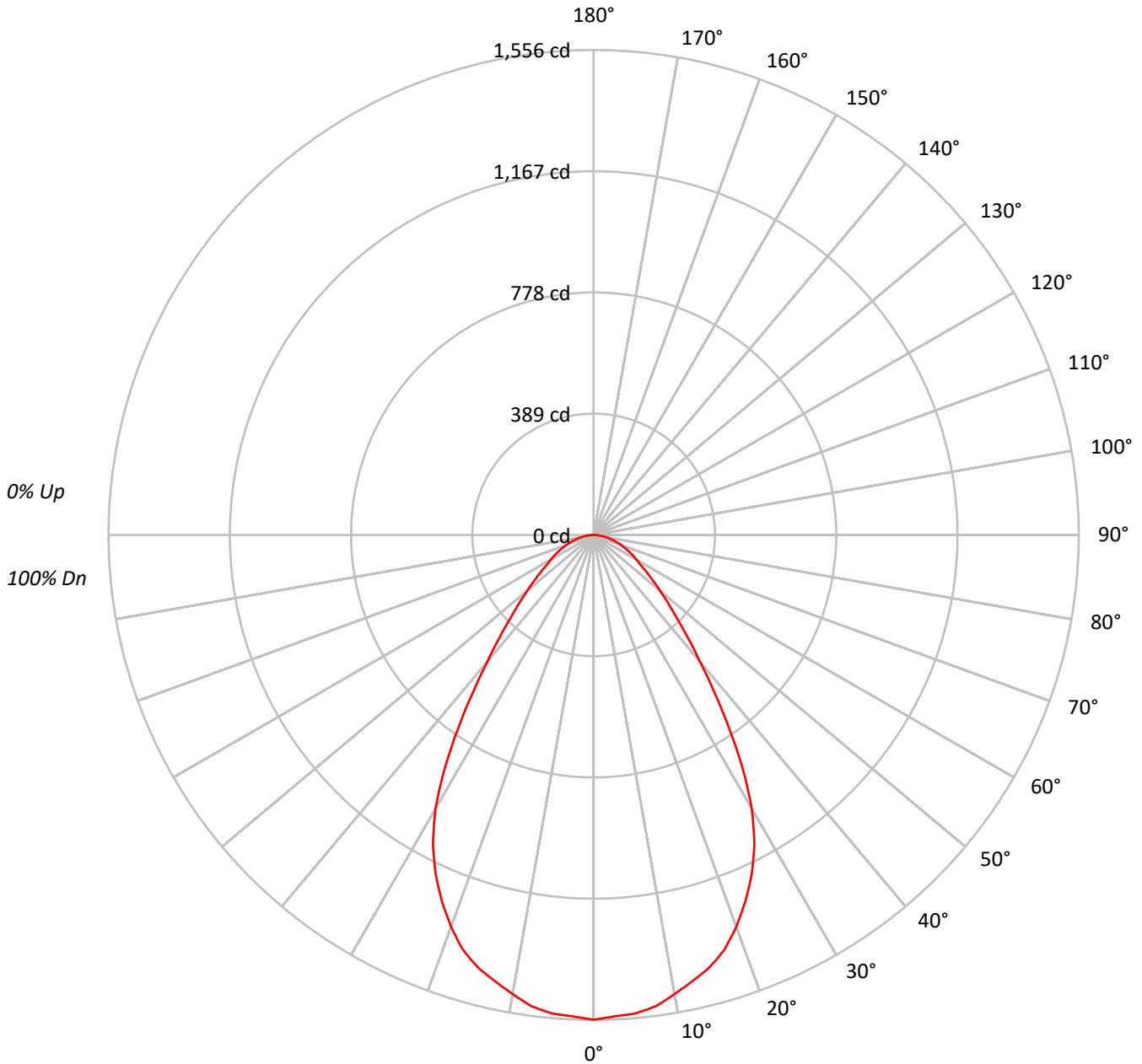
Lumens per Lamp: N/A  
Luminaire Lumens: 2263.1 lumens  
Efficiency: N/A  
Efficacy: 80.8 lumens/watt  
Spacing Criteria (0/90/45): 1.04 / 1.04 / 1.01  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

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: P580336  
CATALOG NUMBER: HCC4S30D010MW-HM43040927-41MDW

### Luminous Intensity Polar Plot





TEST NUMBER: P580336

CATALOG NUMBER: HCC4S30D010MW-HM43040927-41MDW

**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	111	108	104	101	109	105	102	100	101	99	97	97	95	94	94	92	91	89	89	89	89
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79	79	79	79
3	97	88	82	76	94	87	81	76	84	79	75	81	77	73	79	75	72	70	70	70	70
4	90	80	73	68	88	79	73	67	77	71	67	75	70	66	73	68	65	63	63	63	63
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	63	59	57	57	57	57
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	54	52	52	52	52
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47	47	47	47
8	70	58	51	46	68	58	51	46	56	50	46	55	50	45	54	49	45	44	44	44	44
9	66	54	47	42	65	54	47	42	53	46	42	52	46	42	51	46	42	40	40	40	40
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37	37	37	37

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

	0°
0°	191864
5°	190839
10°	187347
15°	183411
20°	175562
25°	163248
30°	144492
35°	114032
40°	85323
45°	65641
50°	53250
55°	44171
60°	39076
65°	36162
70°	33359
75°	30644
80°	27916
85°	22219



TEST NUMBER: P580336  
 CATALOG NUMBER: HCC4S30D010MW-HM43040927-41MDW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	145.7	6.4
10°-20°	402.8	17.8
20°-30°	546.9	24.2
30°-40°	473.8	20.9
40°-50°	297.4	13.1
50°-60°	187.1	8.3
60°-70°	122.9	5.4
70°-80°	67.8	3.0
80°-90°	18.6	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°	1095.4	48.4
0°-40°	1569.2	69.3
0°-60°	2053.8	90.8
0°-90°	2263.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2263.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1556	
5°	1541	146
15°	1436	403
25°	1200	547
35°	757	474
45°	376	297
55°	205	187
65°	124	123
75°	64	68
85°	16	19
90°	0	



TEST NUMBER: P580336  
CATALOG NUMBER: HCC4S30D010MW-HM43040927-41MDW

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1555.5
2.5°	1546.0
5°	1541.3
7.5°	1525.6
10°	1495.8
12.5°	1466.1
15°	1436.3
17.5°	1395.6
20°	1337.5
22.5°	1271.7
25°	1199.5
27.5°	1116.4
30°	1014.5
32.5°	890.7
35°	757.3
37.5°	635.1
40°	529.9
42.5°	446.9
45°	376.3
47.5°	323.1
50°	277.5
52.5°	238.3
55°	205.4
57.5°	177.2
60°	158.4
62.5°	141.1
65°	123.9
67.5°	106.6
70°	92.5
72.5°	76.8
75°	64.3
77.5°	50.2
80°	39.3
82.5°	26.6
85°	15.7
87.5°	6.3
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)