

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: P580338

Luminaire Tested: **HCC4W30D010MB-HM43040927-41PSMDW**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P580338  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-12)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/9/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC4W30D010MB-HM43040927-41PSMDW  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" PLASTIC TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

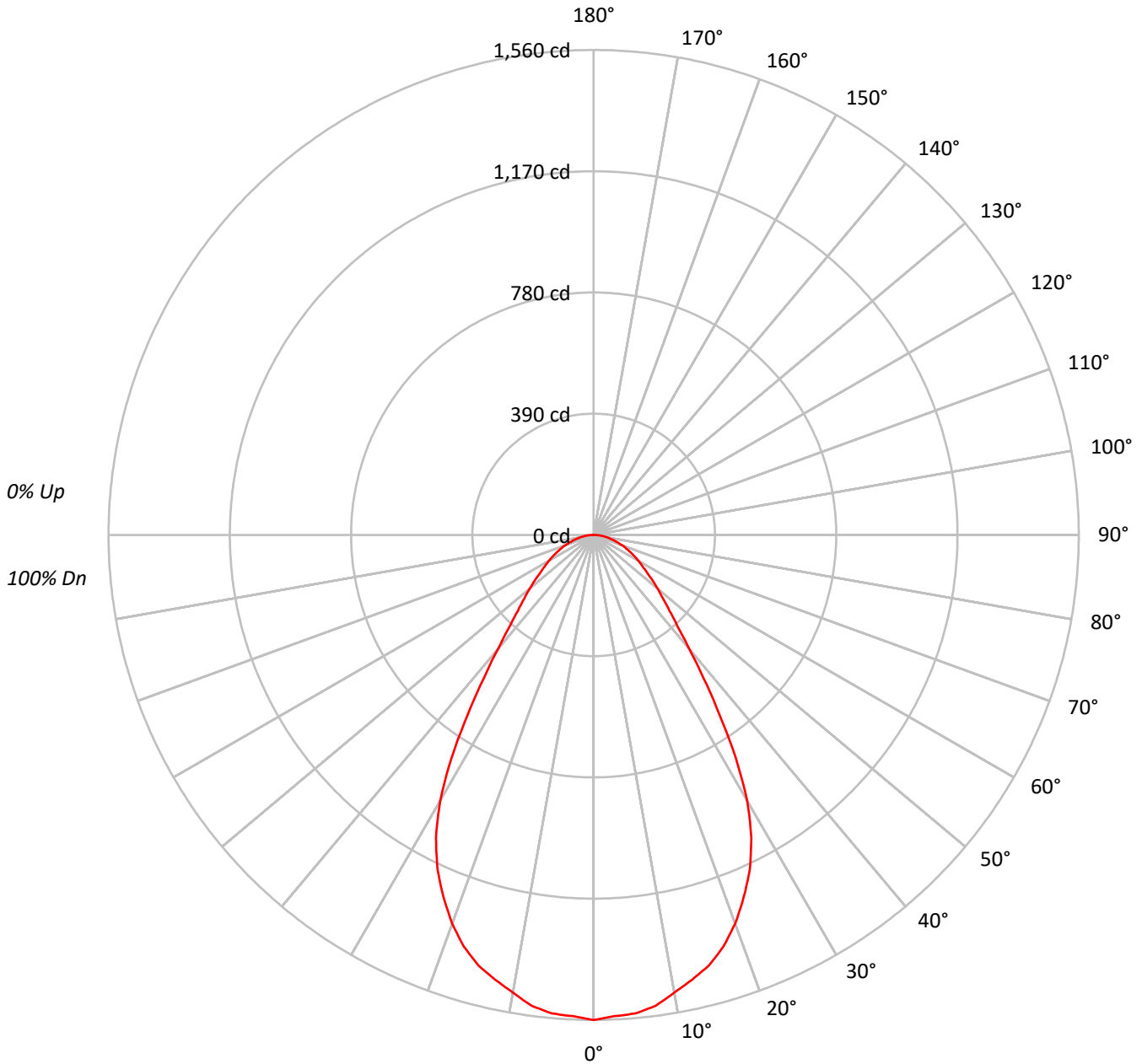
Lumens per Lamp: N/A  
Luminaire Lumens: 2215.9 lumens  
Efficiency: N/A  
Efficacy: 79.1 lumens/watt  
Spacing Criteria (0/90/45): 1.03 / 1.03 / 0.99  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

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: P580338  
CATALOG NUMBER: HCC4W30D010MB-HM43040927-41PSMDW

### Luminous Intensity Polar Plot





TEST NUMBER: P580338

CATALOG NUMBER: HCC4W30D010MB-HM43040927-41PSMDW

**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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	111	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89
2	103	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	80	78
3	96	88	81	76	94	86	80	75	84	78	74	81	77	73	79	75	72	70
4	90	80	73	68	88	79	72	67	77	71	66	74	69	65	72	68	65	63
5	84	74	66	61	82	72	66	60	71	64	60	69	63	59	67	62	59	57
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	53	52
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47
8	70	58	51	46	68	58	51	46	56	50	46	55	50	45	54	49	45	44
9	66	54	47	42	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°	192481
5°	191285
10°	187209
15°	183066
20°	174617
25°	161642
30°	140590
35°	106157
40°	76934
45°	60128
50°	51408
55°	44472
60°	40951
65°	37504
70°	35018
75°	32073
80°	30047
85°	28871



TEST NUMBER: P580338  
 CATALOG NUMBER: HCC4W30D010MB-HM43040927-41PSMDW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	145.9	6.6
10°-20°	401.6	18.1
20°-30°	540.0	24.4
30°-40°	444.0	20.0
40°-50°	272.7	12.3
50°-60°	188.7	8.5
60°-70°	128.6	5.8
70°-80°	71.6	3.2
80°-90°	22.8	1.0
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°	1087.5	49.1
0°-40°	1531.5	69.1
0°-60°	1992.8	89.9
0°-90°	2215.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2215.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1560	
5°	1545	146
15°	1434	402
25°	1188	540
35°	705	444
45°	345	273
55°	207	189
65°	128	129
75°	67	72
85°	20	23
90°	0	



TEST NUMBER: P580338

CATALOG NUMBER: HCC4W30D010MB-HM43040927-41PSMDW

**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1560.5
2.5°	1549.5
5°	1544.9
7.5°	1527.7
10°	1494.7
12.5°	1464.9
15°	1433.6
17.5°	1388.2
20°	1330.3
22.5°	1261.2
25°	1187.7
27.5°	1098.3
30°	987.1
32.5°	850.7
35°	705.0
37.5°	579.7
40°	477.8
42.5°	399.5
45°	344.7
47.5°	302.4
50°	267.9
52.5°	236.5
55°	206.8
57.5°	184.9
60°	166.0
62.5°	147.3
65°	128.5
67.5°	112.8
70°	97.1
72.5°	81.4
75°	67.3
77.5°	53.2
80°	42.3
82.5°	31.4
85°	20.4
87.5°	10.9
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)