

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: P580319

Luminaire Tested: **HCC4W30D010MB-HM43040840-41NDW**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P580319  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-3)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/9/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC4W30D010MB-HM43040840-41NDW  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" NARROW DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

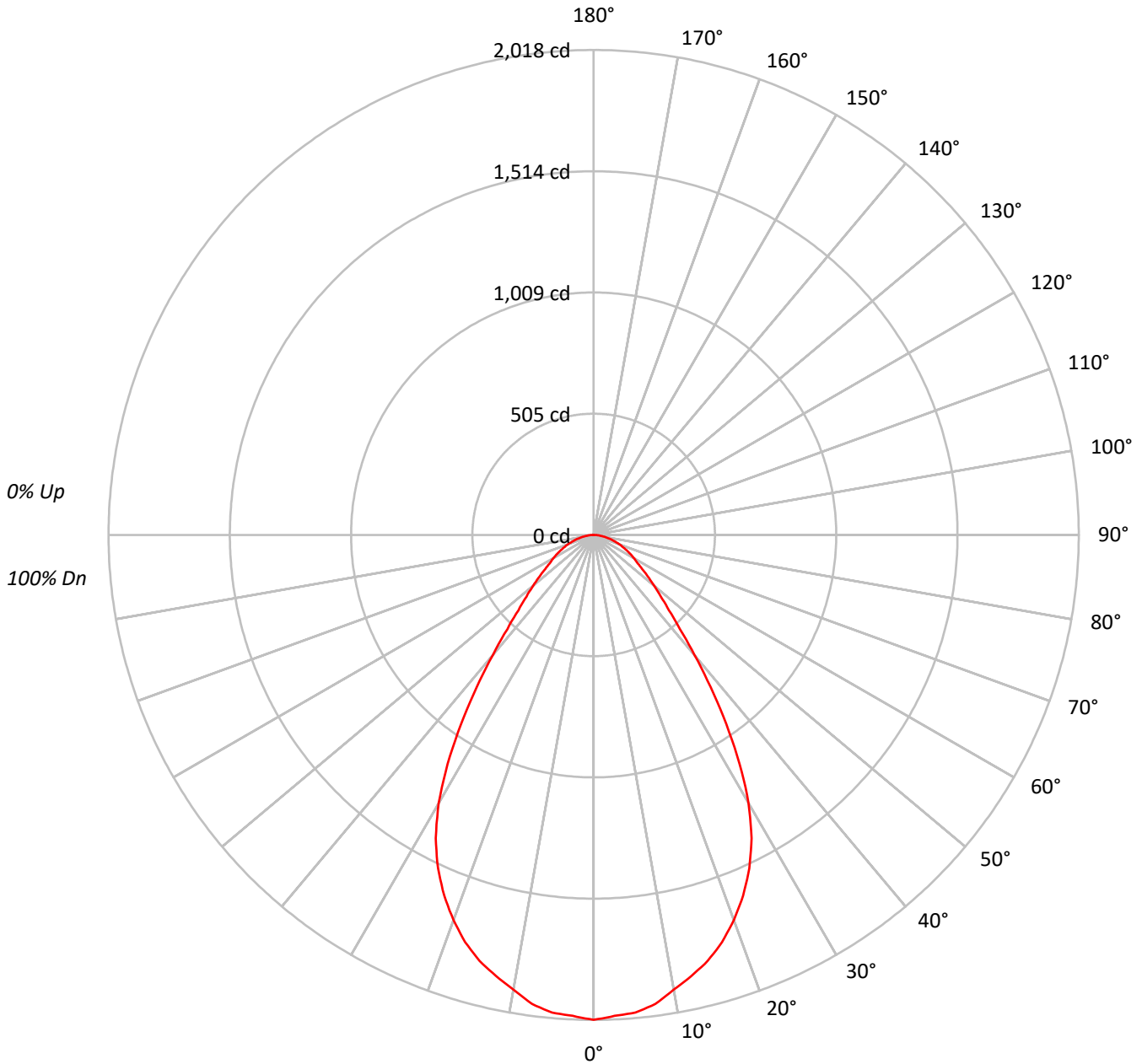
Lumens per Lamp: N/A  
Luminaire Lumens: 2833.0 lumens  
Efficiency: N/A  
Efficacy: 101.2 lumens/watt  
Spacing Criteria (0/90/45): 1.03 / 1.03 / 1.01  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

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: P580319  
CATALOG NUMBER: HCC4W30D010MB-HM43040840-41NDW

### Luminous Intensity Polar Plot





TEST NUMBER: P580319

CATALOG NUMBER: HCC4W30D010MB-HM43040840-41NDW

**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	108	104	101	109	105	102	100	101	99	97	98	96	94	94	92	91	89			89
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79			79
3	97	88	82	77	95	87	81	76	84	79	75	82	77	74	79	76	73	71			71
4	90	81	74	68	88	80	73	68	77	72	67	75	70	66	73	69	65	64			64
5	85	74	67	61	83	73	66	61	71	65	60	69	64	60	68	63	59	58			58
6	79	68	61	56	78	67	60	55	66	60	55	64	59	55	63	58	54	52			52
7	75	63	56	51	73	62	56	51	61	55	50	60	54	50	59	53	50	48			48
8	70	59	52	47	69	58	51	46	57	51	46	56	50	46	55	50	46	44			44
9	66	55	48	43	65	54	47	43	53	47	43	52	47	43	51	46	42	41			41
10	63	51	44	40	62	51	44	40	50	44	40	49	43	39	48	43	39	38			38

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

	0°
0°	248887
5°	247039
10°	240602
15°	234273
20°	223788
25°	208487
30°	183589
35°	144780
40°	105095
45°	77206
50°	62806
55°	52686
60°	47759
65°	43896
70°	40860
75°	37316
80°	33669
85°	29154



TEST NUMBER: P580319  
 CATALOG NUMBER: HCC4W30D010MB-HM43040840-41NDW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	188.1	6.6
10°-20°	514.6	18.2
20°-30°	697.5	24.6
30°-40°	598.5	21.1
40°-50°	353.4	12.5
50°-60°	223.9	7.9
60°-70°	150.5	5.3
70°-80°	83.1	2.9
80°-90°	23.2	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°	1400.2	49.4
0°-40°	1998.8	70.6
0°-60°	2576.1	90.9
0°-90°	2833.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2833.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2018	
5°	1995	188
15°	1835	515
25°	1532	698
35°	962	599
45°	443	353
55°	245	224
65°	150	151
75°	78	83
85°	21	23
90°	0	



TEST NUMBER: P580319  
CATALOG NUMBER: HCC4W30D010MB-HM43040840-41NDW

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2017.8
2.5°	2003.4
5°	1995.2
7.5°	1968.4
10°	1921.0
12.5°	1879.8
15°	1834.6
17.5°	1776.9
20°	1704.9
22.5°	1624.5
25°	1531.9
27.5°	1422.7
30°	1289.0
32.5°	1130.4
35°	961.5
37.5°	798.8
40°	652.7
42.5°	531.2
45°	442.6
47.5°	378.9
50°	327.3
52.5°	284.1
55°	245.0
57.5°	214.1
60°	193.6
62.5°	172.9
65°	150.4
67.5°	131.8
70°	113.3
72.5°	94.8
75°	78.3
77.5°	61.8
80°	47.4
82.5°	32.9
85°	20.6
87.5°	8.2
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)