

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: P579894

Luminaire Tested: **HCC4W15D010MB-HM40525840-41WDW**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P579894  
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: HCC4W15D010MB-HM40525840-41WDW  
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**

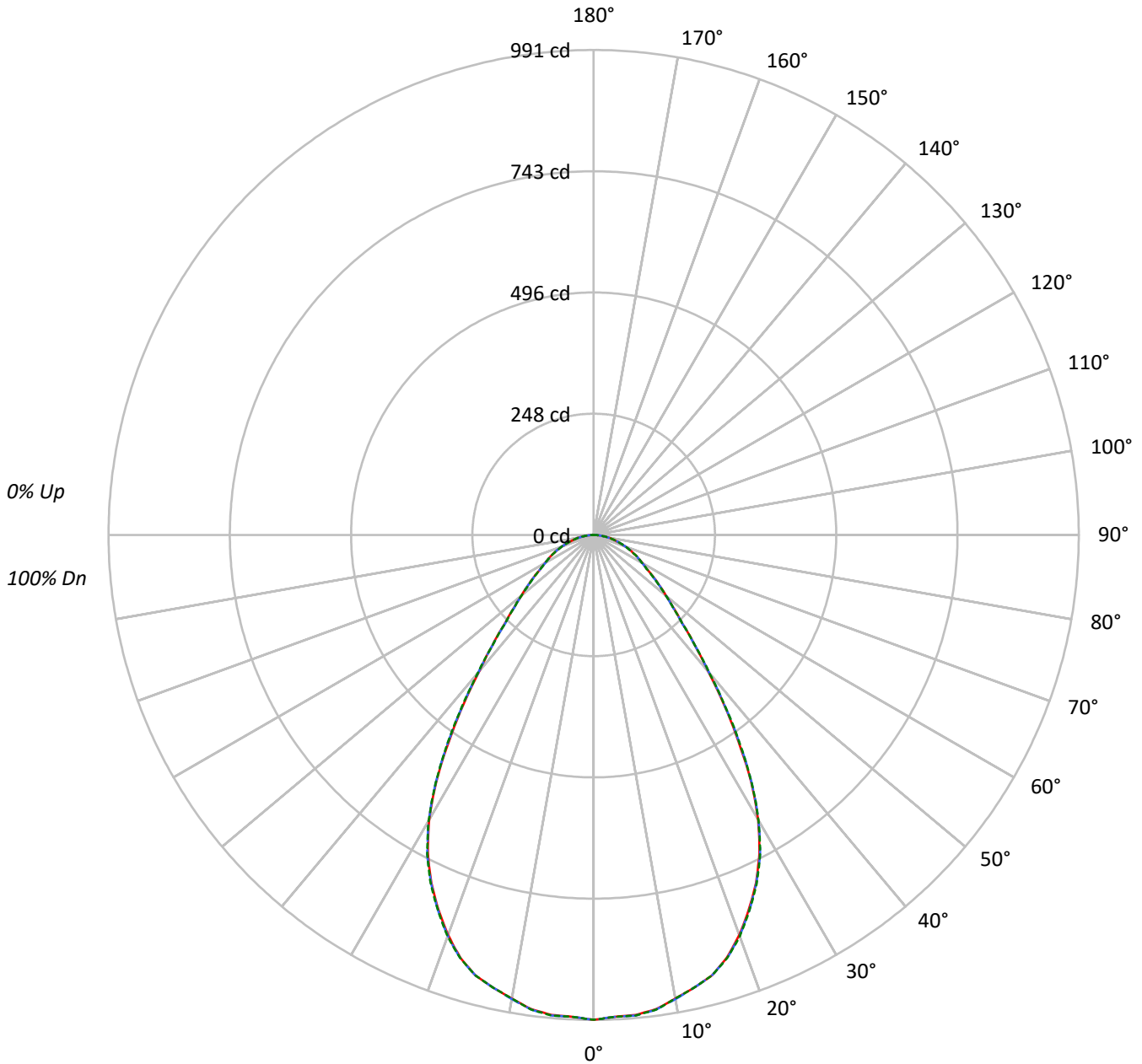
Lumens per Lamp: N/A  
Luminaire Lumens: 1528.5 lumens  
Efficiency: N/A  
Efficacy: 109.2 lumens/watt  
Spacing Criteria (0/90/45): 1.06 / 1.07 / 1.04  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 14  
Input Voltage (V): NR  
Input Current (Ain): 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: P579894  
CATALOG NUMBER: HCC4W15D010MB-HM40525840-41WDW

### Luminous Intensity Polar Plot





TEST NUMBER: P579894

CATALOG NUMBER: HCC4W15D010MB-HM40525840-41WDW

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

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

	0°	45°	90°
0°	122199	122199	122199
5°	121898	122034	122034
10°	120489	120614	120489
15°	119039	119039	119039
20°	114158	114421	114565
25°	106768	106918	107190
30°	95668	95967	95967
35°	77683	78300	78451
40°	58626	58948	59109
45°	44900	44726	44726
50°	36997	36805	36805
55°	31762	31547	31547
60°	28320	28073	28073
65°	26647	26647	26647
70°	24776	24776	24776
75°	22494	22971	22494
80°	21168	20457	21168
85°	17407	17407	17407



TEST NUMBER: P579894

CATALOG NUMBER: HCC4W15D010MB-HM40525840-41WDW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	93.3	6.1
10°-20°	261.2	17.1
20°-30°	358.9	23.5
30°-40°	322.8	21.1
40°-50°	203.9	13.3
50°-60°	133.1	8.7
60°-70°	90.2	5.9
70°-80°	50.8	3.3
80°-90°	14.3	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°	713.5	46.7
0°-40°	1036.2	67.8
0°-60°	1373.3	89.8
0°-90°	1528.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1528.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	991	991	991	991	991	
5°	984	984	986	986	986	93
15°	932	932	932	932	932	261
25°	784	786	786	788	788	358
35°	516	518	520	522	521	321
45°	257	256	256	256	256	204
55°	148	148	147	148	147	134
65°	91	91	91	91	91	90
75°	47	48	48	48	47	51
85°	12	12	12	12	12	14
90°	0	0	0	0	0	



TEST NUMBER: P579894

CATALOG NUMBER: HCC4W15D010MB-HM40525840-41WDW

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	990.7	990.7	990.7	990.7	990.7
2.5°	985.6	985.6	985.6	985.6	985.6
5°	984.5	984.5	985.6	985.6	985.6
7.5°	977.4	978.4	978.4	978.4	978.4
10°	962.0	962.0	963.0	963.0	962.0
12.5°	947.6	947.6	947.6	948.6	947.6
15°	932.2	932.2	932.2	932.2	932.2
17.5°	905.6	906.6	906.6	906.6	906.6
20°	869.7	871.7	871.7	872.8	872.8
22.5°	828.6	829.7	830.7	831.7	830.7
25°	784.5	785.6	785.6	787.6	787.6
27.5°	733.3	734.3	736.3	736.3	736.3
30°	671.7	672.8	673.8	673.8	673.8
32.5°	599.0	599.0	601.0	602.0	601.0
35°	515.9	517.9	520.0	522.0	521.0
37.5°	436.9	439.0	440.0	440.0	441.0
40°	364.1	366.1	366.1	368.2	367.1
42.5°	306.6	305.6	305.6	307.7	306.6
45°	257.4	256.4	256.4	256.4	256.4
47.5°	221.5	220.5	220.5	220.5	220.5
50°	192.8	191.8	191.8	191.8	191.8
52.5°	169.2	168.2	168.2	168.2	167.1
55°	147.7	147.7	146.7	147.7	146.7
57.5°	128.1	128.1	128.1	128.1	128.1
60°	114.8	113.8	113.8	113.8	113.8
62.5°	102.6	102.6	102.6	102.6	102.6
65°	91.3	91.3	91.3	91.3	91.3
67.5°	80.0	79.0	80.0	80.0	79.0
70°	68.7	67.7	68.7	68.7	68.7
72.5°	57.4	57.4	57.4	58.4	57.4
75°	47.2	48.2	48.2	48.2	47.2
77.5°	38.0	39.0	38.0	38.0	38.0
80°	29.8	28.8	28.8	28.8	29.8
82.5°	20.5	20.5	20.5	20.5	20.5
85°	12.3	12.3	12.3	12.3	12.3
87.5°	5.1	5.1	5.1	5.1	5.1
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)