

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: P579844

Luminaire Tested: **HCC4W15D010BZ-HM40525827-41WWW**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P579844  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-16)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/9/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC4W15D010BZ-HM40525827-41WWW  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WALLWASH DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

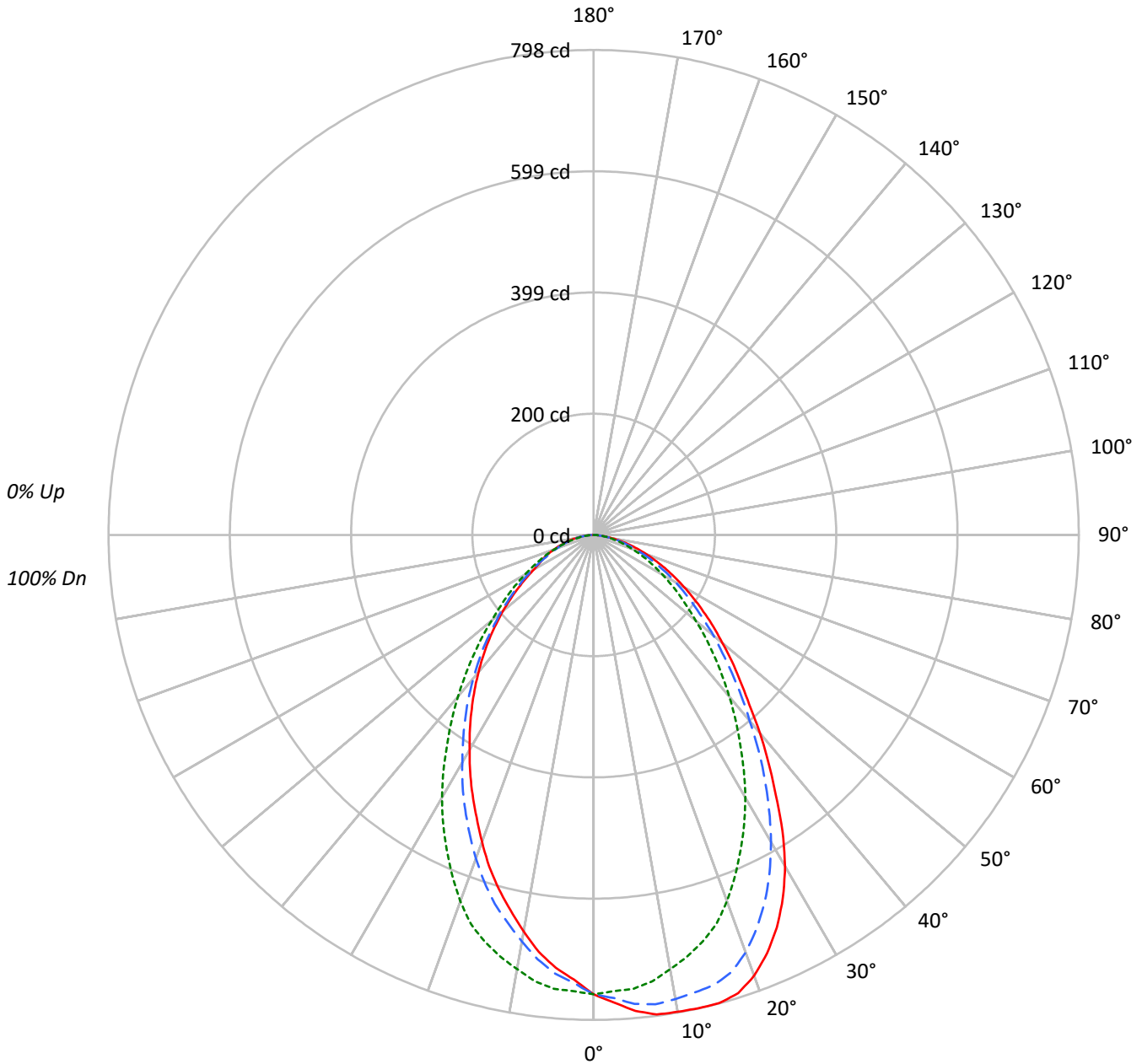
Lumens per Lamp: N/A  
Luminaire Lumens: 1349.8 lumens  
Efficiency: N/A  
Efficacy: 96.4 lumens/watt  
Spacing Criteria (0/90/45): 1.06 / 1.03 / 1.1  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

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: P579844  
CATALOG NUMBER: HCC4W15D010BZ-HM40525827-41WWW

### Luminous Intensity Polar Plot



Cooper Lighting Solutions Photometric Lab  
 1121 Highway 74 South  
 Peachtree City, GA 30269



TEST NUMBER: P579844

CATALOG NUMBER: HCC4W15D010BZ-HM40525827-41WWW

**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								
1	111	106	103	100	108	104	101	98	100	97	95	96	94	92	93	91	89	87								
2	102	95	89	84	100	93	88	83	90	85	81	87	83	80	84	81	78	76								
3	94	85	78	72	92	84	77	72	81	75	71	78	73	69	76	72	68	66								
4	87	77	69	63	85	76	68	63	73	67	62	71	66	61	69	64	60	58								
5	81	70	62	56	79	69	61	56	67	60	55	65	59	54	63	58	54	52								
6	76	64	56	50	74	63	55	50	61	54	49	59	53	49	58	53	48	47								
7	71	58	50	45	69	58	50	45	56	49	44	55	49	44	53	48	44	42								
8	66	54	46	41	65	53	46	41	52	45	40	51	45	40	50	44	40	38								
9	62	50	42	37	61	49	42	37	48	42	37	47	41	37	46	41	37	35								
10	59	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	32								

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

	0°	90°	180°
0°	93237	93237	93237
5°	97332	92813	88517
10°	99798	90880	82977
15°	101851	88468	77001
20°	101321	84165	70501
25°	97051	77820	64142
30°	89672	71057	58139
35°	78601	63197	52627
40°	68432	55840	47403
45°	59553	48703	42336
50°	53058	41986	37381
55°	47439	36902	32321
60°	42332	32267	27851
65°	37621	28281	26472
70°	33034	24343	24668
75°	27975	20731	22875
80°	21452	17687	20812
85°	12596	13869	17549



TEST NUMBER: P579844  
 CATALOG NUMBER: HCC4W15D010BZ-HM40525827-41WWW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	70.9	5.2
10°-20°	195.4	14.5
20°-30°	267.0	19.8
30°-40°	268.1	19.9
40°-50°	221.8	16.4
50°-60°	160.7	11.9
60°-70°	101.8	7.5
70°-80°	51.5	3.8
80°-90°	12.6	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°	533.3	39.5
0°-40°	801.4	59.4
0°-60°	1183.9	87.7
0°-90°	1349.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1349.8	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	756	756	756	756	756	
5°	786	774	750	725	715	75
15°	798	767	693	629	603	224
25°	713	666	572	500	471	326
35°	522	491	420	368	350	327
45°	341	322	279	252	243	266
55°	221	201	172	156	150	198
65°	129	115	97	87	91	128
75°	59	51	44	45	48	63
85°	9	9	10	12	12	12
90°	0	0	0	0	0	



TEST NUMBER: P579844

CATALOG NUMBER: HCC4W15D010BZ-HM40525827-41WWW

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	755.9	755.9	755.9	755.9	755.9	755.9	755.9	755.9	755.9
2.5°	770.1	767.4	762.9	757.6	751.4	744.3	738.0	734.5	732.7
5°	786.1	782.5	774.5	762.9	749.6	736.3	724.7	717.7	714.9
7.5°	795.9	790.6	779.0	761.2	740.8	721.2	704.3	694.5	691.9
10°	796.8	790.6	775.4	751.4	725.6	699.8	679.4	665.1	662.5
12.5°	797.6	789.6	771.0	742.6	710.5	678.4	653.5	636.7	632.3
15°	797.6	789.6	766.6	732.7	692.8	656.3	628.6	609.1	603.0
17.5°	790.6	781.7	754.1	714.9	671.4	630.5	598.5	578.1	571.8
20°	771.9	762.1	731.0	688.2	641.2	598.5	566.5	545.1	537.1
22.5°	745.2	733.6	700.7	654.5	607.4	563.7	532.7	510.4	503.3
25°	713.1	701.6	666.1	620.7	571.8	530.9	499.7	479.2	471.3
27.5°	674.0	661.6	626.9	581.6	536.2	495.3	466.9	448.2	440.1
30°	629.6	616.3	583.4	539.7	498.9	459.7	432.2	417.1	408.2
32.5°	578.1	566.5	537.1	498.0	459.7	422.4	399.3	385.9	378.8
35°	522.0	515.7	490.8	457.1	419.7	388.6	368.2	355.7	349.5
37.5°	472.2	465.9	444.6	416.1	383.3	354.9	337.9	327.2	321.9
40°	425.0	419.7	399.3	375.2	346.8	321.9	307.7	299.7	294.4
42.5°	378.8	376.1	359.3	337.0	312.1	290.7	279.2	273.0	268.6
45°	341.4	337.9	321.9	300.5	279.2	261.4	251.6	247.2	242.7
47.5°	308.6	304.1	287.2	268.6	249.0	233.0	224.1	219.7	217.8
50°	276.5	272.1	257.0	238.3	218.8	207.2	200.1	195.7	194.8
52.5°	248.1	243.7	226.7	209.0	193.9	184.1	177.8	173.4	171.6
55°	220.6	215.2	201.0	184.1	171.6	162.7	156.5	152.0	150.3
57.5°	195.7	190.3	177.8	161.8	150.3	142.2	136.9	132.5	130.8
60°	171.6	167.1	155.7	140.5	130.8	123.6	118.2	114.7	112.9
62.5°	149.4	145.9	134.3	121.0	112.9	106.8	102.2	98.7	100.5
65°	128.9	125.4	114.7	103.1	96.9	90.7	87.1	87.1	90.7
67.5°	109.4	105.9	96.9	87.1	81.9	77.3	74.7	77.3	80.0
70°	91.6	88.0	80.0	72.0	67.5	64.0	64.0	66.7	68.4
72.5°	74.7	71.2	64.9	58.7	55.1	52.4	55.1	57.0	58.7
75°	58.7	56.1	50.7	46.3	43.5	42.6	45.4	47.2	48.0
77.5°	43.5	41.8	38.2	34.7	32.9	33.8	36.5	37.3	38.2
80°	30.2	29.3	26.7	24.9	24.9	25.8	27.5	28.4	29.3
82.5°	18.6	18.6	16.9	16.0	16.9	18.6	19.6	20.5	20.5
85°	8.9	9.8	8.9	8.9	9.8	11.6	11.6	12.4	12.4
87.5°	2.6	2.6	3.5	3.5	4.4	4.4	4.4	4.4	5.3
90°	0.0	0.0	0.0	0.0	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)