

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: P579842

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

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P579842  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-15)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/9/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC4W15D010BZ-HM40525827-41RWWH  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WALLWASH DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

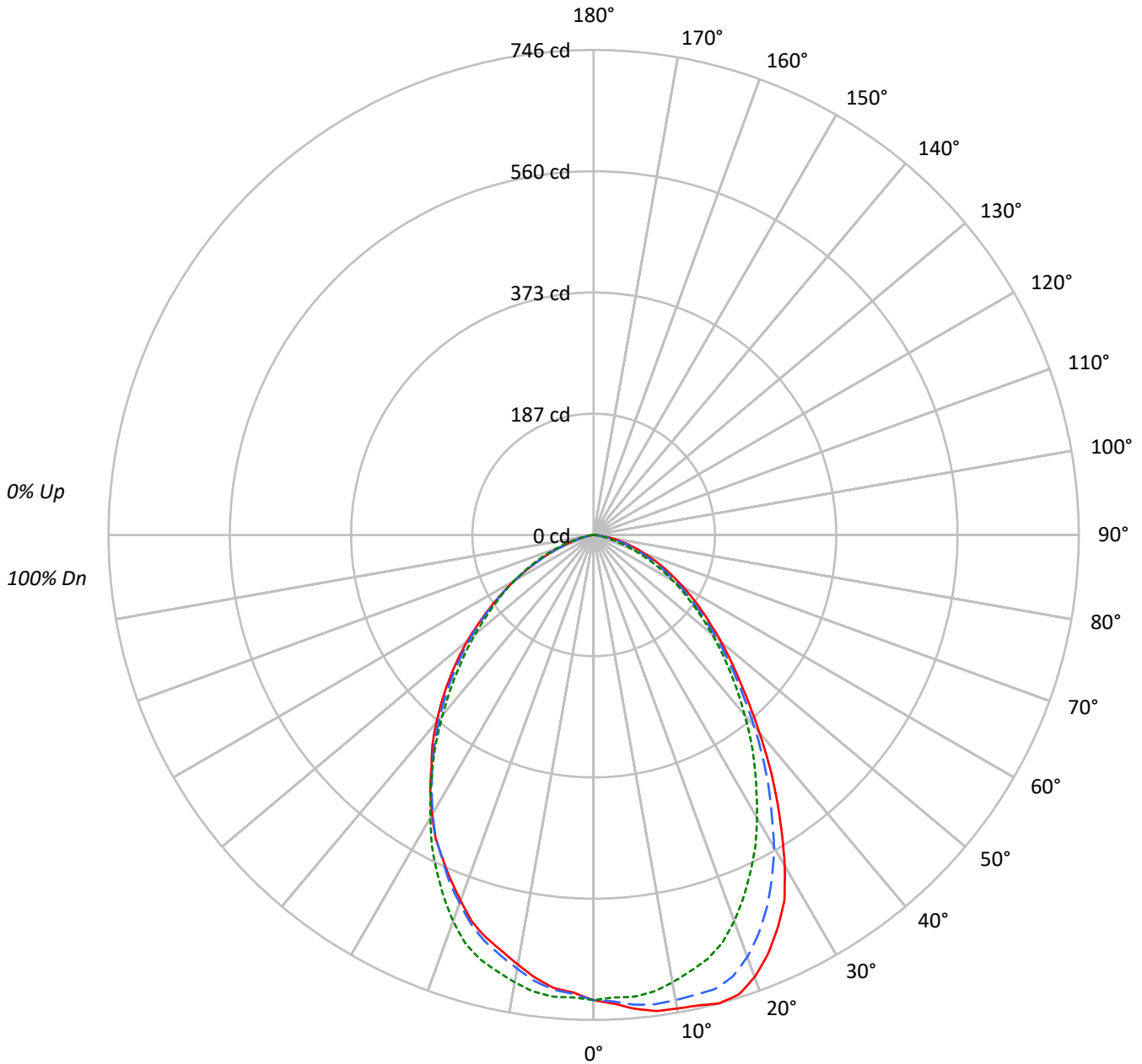
Lumens per Lamp: N/A  
Luminaire Lumens: 1364.0 lumens  
Efficiency: N/A  
Efficacy: 97.4 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.08 / 1.16  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 14  
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: P579842  
CATALOG NUMBER: HCC4W15D010BZ-HM40525827-41RWWH

### Luminous Intensity Polar Plot



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



TEST NUMBER: P579842

CATALOG NUMBER: HCC4W15D010BZ-HM40525827-41RWWH

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	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	107	104	100	108	105	102	99	101	98	96	97	95	93	93	92	90	88								
2	103	96	90	85	100	94	89	84	90	86	82	87	84	80	84	81	79	77								
3	95	86	79	73	92	84	78	73	81	76	71	79	74	70	76	72	69	67								
4	88	77	70	64	86	76	69	63	74	67	62	71	66	62	69	65	61	59								
5	81	70	62	56	79	69	61	56	67	60	55	65	59	55	63	58	54	52								
6	76	64	56	50	74	63	55	50	61	54	49	60	54	49	58	53	49	47								
7	71	58	51	45	69	58	50	45	56	49	45	55	49	44	54	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	41	37	47	41	37	46	41	37	35								
10	58	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°	88266	88266	88266
5°	90597	88281	86622
10°	92634	87524	84067
15°	95249	86272	81841
20°	94994	82971	78534
25°	90994	77684	74772
30°	83690	71541	70786
35°	73617	64929	65456
40°	63698	58111	60542
45°	55349	51651	54738
50°	49143	45555	48606
55°	43590	39956	41698
60°	38829	34635	34635
65°	34498	28807	26968
70°	29825	21819	19222
75°	24972	14392	11867
80°	18966	6961	6322
85°	10190	2547	2547



TEST NUMBER: P579842  
 CATALOG NUMBER: HCC4W15D010BZ-HM40525827-41RWWH

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	67.8	5.0
10°-20°	192.1	14.1
20°-30°	271.0	19.9
30°-40°	279.9	20.5
40°-50°	237.3	17.4
50°-60°	172.6	12.7
60°-70°	100.9	7.4
70°-80°	37.5	2.7
80°-90°	4.9	0.4
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°	530.9	38.9
0°-40°	810.8	59.4
0°-60°	1220.7	89.5
0°-90°	1364.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1364.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	716	716	716	716	716	
5°	732	725	713	702	700	70
15°	746	723	676	647	641	210
25°	669	631	571	550	549	306
35°	489	468	431	432	435	305
45°	317	308	296	307	314	247
55°	203	193	186	192	194	182
65°	118	108	99	92	92	117
75°	52	44	30	24	25	56
85°	7	4	2	2	2	10
90°	0	0	0	0	0	

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



TEST NUMBER: P579842

CATALOG NUMBER: HCC4W15D010BZ-HM40525827-41RWWH

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	715.6	715.6	715.6	715.6	715.6	715.6	715.6	715.6	715.6
2.5°	721.9	720.1	718.4	715.6	712.1	709.4	706.8	704.9	704.9
5°	731.7	728.9	725.4	719.2	713.0	707.7	702.3	699.6	699.6
7.5°	738.7	735.2	728.1	719.2	708.6	700.5	692.5	689.0	687.2
10°	739.6	736.1	726.3	713.0	698.8	686.3	677.4	672.1	671.2
12.5°	741.4	737.0	724.5	705.8	687.2	672.1	662.3	657.0	655.1
15°	745.9	739.6	722.8	698.8	675.6	657.9	647.2	642.7	640.9
17.5°	741.4	732.6	712.1	683.7	657.9	638.3	627.6	623.2	623.2
20°	723.7	714.7	690.7	659.7	632.1	613.4	602.7	600.1	598.3
22.5°	698.8	689.0	663.2	630.4	602.7	585.9	578.7	575.2	574.3
25°	668.6	658.8	631.1	597.4	570.8	556.6	550.3	550.3	549.4
27.5°	634.8	622.3	593.9	564.5	538.7	528.0	525.4	525.4	526.3
30°	587.6	578.7	554.7	526.3	502.3	495.2	495.2	497.0	497.0
32.5°	537.0	530.8	509.4	484.5	465.8	461.4	463.2	466.7	467.6
35°	488.9	481.9	467.6	445.4	431.2	429.3	432.1	434.7	434.7
37.5°	441.8	434.7	424.9	407.2	396.5	397.4	400.9	404.5	407.2
40°	395.6	390.2	383.2	369.0	360.9	364.5	369.0	372.5	376.0
42.5°	354.7	349.4	344.1	333.4	328.0	332.5	337.8	341.3	345.0
45°	317.3	313.8	308.5	299.6	296.1	300.5	306.6	310.3	313.8
47.5°	285.4	283.6	276.5	268.4	266.7	271.2	276.5	281.0	283.6
50°	256.1	253.3	247.2	239.1	237.4	244.5	248.0	250.7	253.3
52.5°	227.6	224.9	217.8	210.7	210.7	216.0	218.6	219.6	222.3
55°	202.7	200.0	192.9	187.6	185.8	190.2	192.0	192.0	193.9
57.5°	179.5	176.9	169.8	163.6	162.7	165.3	165.3	165.3	166.2
60°	157.4	154.6	147.6	142.2	140.4	141.3	140.4	139.6	140.4
62.5°	136.9	134.3	127.1	120.9	119.2	119.2	116.4	115.5	116.4
65°	118.2	113.8	108.5	102.2	98.7	96.0	92.4	92.4	92.4
67.5°	99.6	96.0	89.8	83.6	79.1	74.7	69.4	71.2	72.0
70°	82.7	80.0	72.9	66.6	60.5	55.1	50.7	52.4	53.3
72.5°	67.5	64.0	57.8	50.7	45.4	38.2	35.6	37.3	37.3
75°	52.4	48.9	43.5	36.5	30.2	24.0	24.0	24.9	24.9
77.5°	39.1	35.6	30.2	24.0	18.6	14.2	15.1	15.1	15.1
80°	26.7	24.0	19.6	14.2	9.8	8.0	8.0	8.0	8.9
82.5°	15.1	13.3	10.7	7.2	4.4	4.4	4.4	4.4	4.4
85°	7.2	5.3	4.4	2.6	1.8	1.8	1.8	1.8	1.8
87.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
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)