

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: P592636

Luminaire Tested: **HCC4W15D010SL-HM40525850-41WWW**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P592636  
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: HCC4W15D010SL-HM40525850-41WWW  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WALLWASH DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

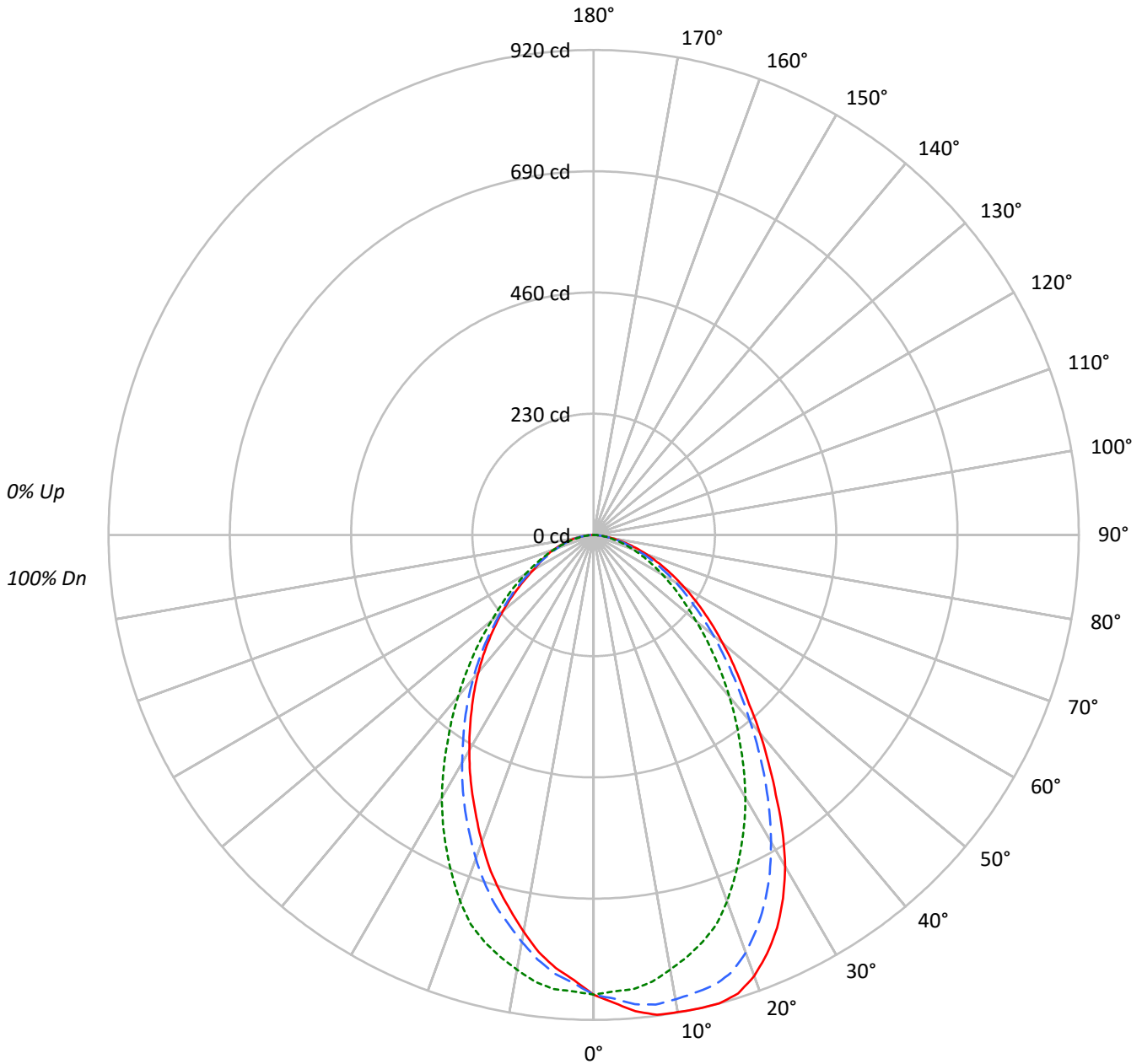
Lumens per Lamp: N/A  
Luminaire Lumens: 1557.2 lumens  
Efficiency: N/A  
Efficacy: 111.2 lumens/watt  
Spacing Criteria (0/90/45): 1.06 / 1.03 / 1.1  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 14  
Input Voltage (V): NR  
Input Current (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: P592636  
CATALOG NUMBER: HCC4W15D010SL-HM40525850-41WWW

### Luminous Intensity Polar Plot



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



TEST NUMBER: P592636

CATALOG NUMBER: HCC4W15D010SL-HM40525850-41WWW

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

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

	0°	90°	180°
0°	107570	107570	107570
5°	112289	107077	102124
10°	115141	104858	95727
15°	117519	102055	88826
20°	116889	97094	81343
25°	111967	89783	73996
30°	103445	81967	67069
35°	90678	72909	60713
40°	78962	64423	54681
45°	68728	56186	48842
50°	61213	48433	43118
55°	54729	42579	37289
60°	48845	37201	32144
65°	43400	32659	30529
70°	38083	28130	28490
75°	32312	23972	26402
80°	24790	20457	24080
85°	14435	15992	20238



TEST NUMBER: P592636  
 CATALOG NUMBER: HCC4W15D010SL-HM40525850-41WWW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	81.7	5.2
10°-20°	225.5	14.5
20°-30°	308.0	19.8
30°-40°	309.3	19.9
40°-50°	255.9	16.4
50°-60°	185.4	11.9
60°-70°	117.5	7.5
70°-80°	59.4	3.8
80°-90°	14.5	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°	615.3	39.5
0°-40°	924.6	59.4
0°-60°	1365.9	87.7
0°-90°	1557.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1557.2	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	872	872	872	872	872	
5°	907	894	865	836	825	87
15°	920	884	799	725	696	259
25°	823	768	660	577	544	376
35°	602	566	484	425	403	377
45°	394	371	322	290	280	306
55°	254	232	198	181	173	229
65°	149	132	112	100	105	148
75°	68	58	50	52	55	72
85°	10	10	11	13	14	14
90°	0	0	0	0	0	

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



TEST NUMBER: P592636

CATALOG NUMBER: HCC4W15D010SL-HM40525850-41WWW

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	872.1	872.1	872.1	872.1	872.1	872.1	872.1	872.1	872.1
2.5°	888.5	885.4	880.3	874.1	866.8	858.7	851.5	847.4	845.4
5°	906.9	902.8	893.6	880.3	864.8	849.5	836.1	828.0	824.8
7.5°	918.2	912.0	898.7	878.2	854.6	832.1	812.5	801.2	798.2
10°	919.3	912.0	894.6	866.8	837.2	807.4	783.8	767.4	764.3
12.5°	920.3	911.0	889.5	856.6	819.7	782.8	754.1	734.5	729.4
15°	920.3	911.0	884.4	845.4	799.2	757.1	725.3	702.8	695.6
17.5°	912.0	901.8	870.0	824.8	774.5	727.3	690.4	666.9	659.7
20°	890.5	879.2	843.3	794.1	739.7	690.4	653.5	628.9	619.7
22.5°	859.7	846.4	808.4	755.1	700.7	650.5	614.5	588.9	580.7
25°	822.7	809.4	768.4	716.1	659.7	612.5	576.6	552.9	543.7
27.5°	777.6	763.3	723.2	670.9	618.6	571.5	538.6	517.1	507.8
30°	726.3	711.0	673.0	622.7	575.5	530.4	498.6	481.2	470.9
32.5°	666.9	653.5	619.7	574.5	530.4	487.3	460.6	445.2	437.1
35°	602.2	595.0	566.3	527.3	484.2	448.3	424.8	410.3	403.2
37.5°	544.7	537.6	512.9	480.2	442.2	409.3	389.9	377.5	371.3
40°	490.4	484.2	460.6	433.0	400.1	371.3	355.0	345.8	339.6
42.5°	437.1	434.0	414.4	388.9	360.1	335.5	322.1	314.9	309.8
45°	394.0	389.9	371.3	346.8	322.1	301.6	290.4	285.2	280.0
47.5°	356.0	350.9	331.3	309.8	287.2	268.8	258.6	253.4	251.4
50°	319.0	313.9	296.5	274.9	252.4	239.0	230.8	225.7	224.7
52.5°	286.2	281.1	261.6	241.0	223.6	212.4	205.2	200.0	198.0
55°	254.5	248.3	231.8	212.4	198.0	187.7	180.6	175.4	173.4
57.5°	225.7	219.6	205.2	186.7	173.4	164.2	158.0	152.8	150.8
60°	198.0	192.8	179.5	162.1	150.8	142.6	136.4	132.3	130.3
62.5°	172.4	168.3	154.9	139.5	130.3	123.1	118.0	113.9	116.0
65°	148.7	144.6	132.3	119.0	111.9	104.6	100.5	100.5	104.6
67.5°	126.2	122.1	111.9	100.5	94.4	89.3	86.2	89.3	92.3
70°	105.6	101.5	92.3	83.1	78.0	73.9	73.9	77.0	79.0
72.5°	86.2	82.1	74.9	67.8	63.6	60.5	63.6	65.6	67.8
75°	67.8	64.6	58.4	53.3	50.3	49.2	52.3	54.3	55.4
77.5°	50.3	48.2	44.1	40.0	38.0	39.0	42.1	43.1	44.1
80°	34.9	33.9	30.8	28.8	28.8	29.8	31.8	32.9	33.9
82.5°	21.5	21.5	19.4	18.4	19.4	21.5	22.6	23.6	23.6
85°	10.2	11.3	10.2	10.2	11.3	13.3	13.3	14.3	14.3
87.5°	3.1	3.1	4.1	4.1	5.1	5.1	5.1	5.1	6.1
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)