

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: P579951

Luminaire Tested: **HCC4S15D010SL-HM40525935-41WWBB**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P579951  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-17)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/9/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC4S15D010SL-HM40525935-41WWBB  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WALLWASH DISTRIBUTION, WHITE BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

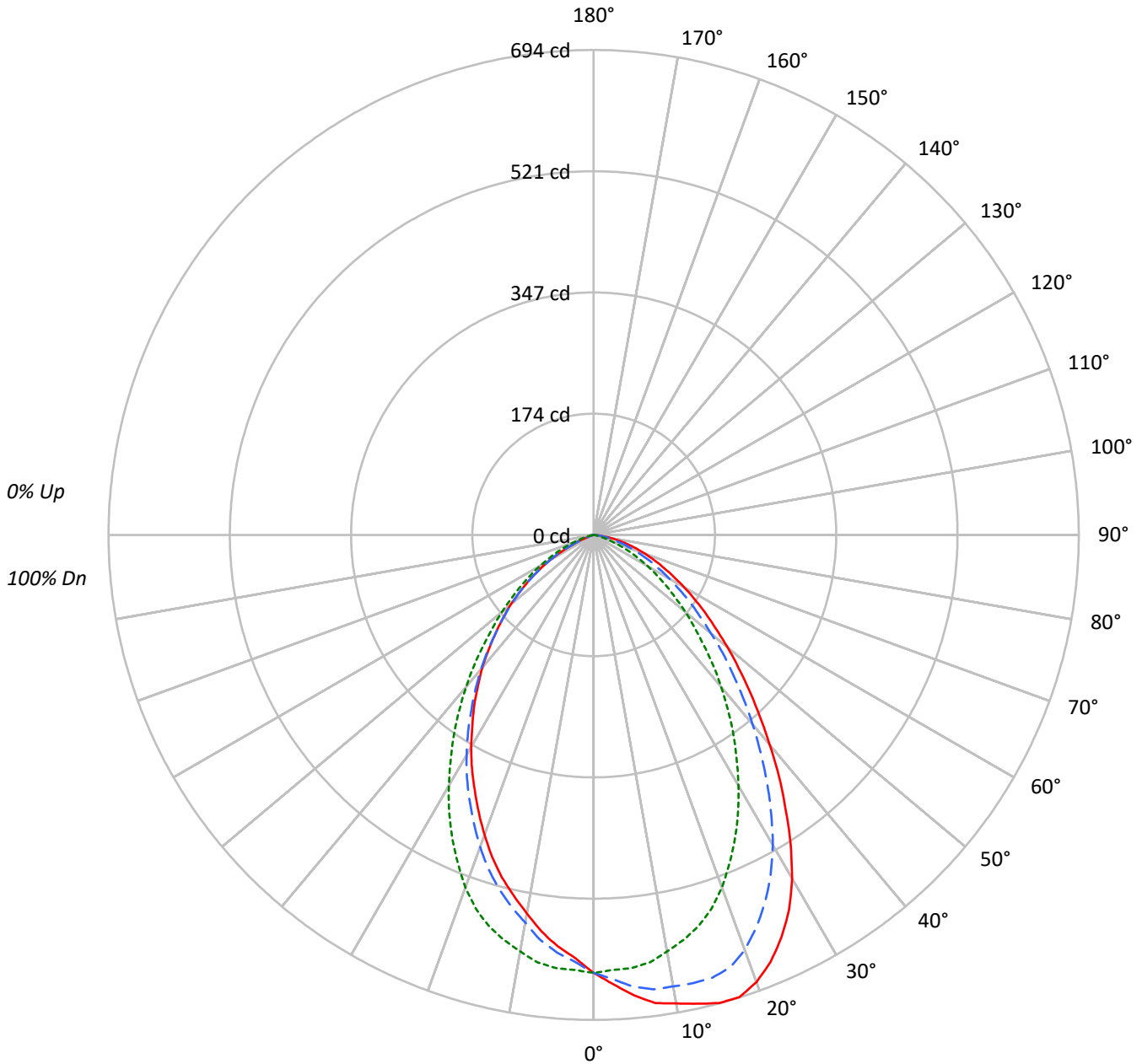
Lumens per Lamp: N/A  
Luminaire Lumens: 1082.3 lumens  
Efficiency: N/A  
Efficacy: 77.3 lumens/watt  
Spacing Criteria (0/90/45): 1.11 / 1.04 / 1.12  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

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: P579951  
CATALOG NUMBER: HCC4S15D010SL-HM40525935-41WWBB

### Luminous Intensity Polar Plot





TEST NUMBER: P579951

CATALOG NUMBER: HCC4S15D010SL-HM40525935-41WWBB

**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	108	104	101	109	105	102	100	101	99	97	97	95	94	94	92	91	89								
2	103	97	91	87	101	95	90	86	92	87	84	88	85	82	85	83	80	78								
3	96	87	80	75	94	86	79	74	83	78	73	80	76	72	78	74	71	69								
4	89	79	72	66	87	78	71	65	75	69	65	73	68	64	71	67	63	61								
5	83	72	64	58	81	71	64	58	69	62	58	67	61	57	65	60	56	55								
6	77	66	58	52	75	65	57	52	63	57	52	61	56	51	60	55	51	49								
7	72	60	53	47	71	59	52	47	58	51	47	57	51	46	55	50	46	44								
8	68	56	48	43	66	55	48	43	54	47	42	53	47	42	51	46	42	40								
9	64	52	44	39	62	51	44	39	50	43	39	49	43	39	48	43	39	37								
10	60	48	41	36	59	47	41	36	46	40	36	46	40	36	45	39	36	34								

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

	0°	90°	180°
0°	77288	77288	77288
5°	81892	77039	73163
10°	85282	75800	68887
15°	88558	73988	64768
20°	89376	70435	59908
25°	86490	65150	54820
30°	80870	59022	49892
35°	72081	52476	44827
40°	62990	45648	39900
45°	54878	38708	34504
50°	47896	32833	29590
55°	41977	27203	23956
60°	36708	21980	17589
65°	31988	16403	9894
70°	27949	10603	3210
75°	22923	5528	858
80°	17119	2486	639
85°	10190	1274	1274



TEST NUMBER: P579951  
 CATALOG NUMBER: HCC4S15D010SL-HM40525935-41WWBB

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	59.1	5.5
10°-20°	165.5	15.3
20°-30°	228.8	21.1
30°-40°	230.1	21.3
40°-50°	185.7	17.2
50°-60°	125.5	11.6
60°-70°	63.9	5.9
70°-80°	20.5	1.9
80°-90°	3.1	0.3
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°	453.5	41.9
0°-40°	683.6	63.2
0°-60°	994.8	91.9
0°-90°	1082.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1082.3	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	627	627	627	627	627	
5°	661	649	622	600	591	64
15°	694	656	579	524	507	195
25°	636	580	479	420	403	291
35°	479	432	348	305	298	299
45°	315	282	222	198	198	244
55°	195	168	126	110	111	175
65°	110	89	56	36	34	110
75°	48	34	12	3	2	52
85°	7	4	1	1	1	10
90°	0	0	0	0	0	

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



TEST NUMBER: P579951

CATALOG NUMBER: HCC4S15D010SL-HM40525935-41WWBB

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	626.6	626.6	626.6	626.6	626.6	626.6	626.6	626.6	626.6
2.5°	643.5	640.0	636.4	630.1	623.1	615.9	611.5	607.8	606.1
5°	661.4	657.0	648.9	635.5	622.2	609.7	599.9	593.6	590.9
7.5°	675.6	669.4	656.0	637.3	616.8	597.2	584.8	575.8	572.3
10°	680.9	673.8	656.0	631.0	605.2	581.1	563.3	554.4	550.0
12.5°	687.2	679.2	657.0	625.7	593.6	565.1	544.6	533.0	528.6
15°	693.5	682.8	656.0	617.7	579.4	546.3	524.0	512.6	507.2
17.5°	693.5	680.9	648.9	604.3	560.7	525.9	501.0	487.5	483.1
20°	680.9	666.7	631.9	582.9	536.6	499.1	475.0	461.7	456.4
22.5°	661.4	645.4	607.8	557.1	508.0	471.5	447.4	435.0	429.7
25°	635.5	619.4	580.2	527.7	478.7	442.1	419.8	408.2	402.8
27.5°	605.2	587.4	548.1	495.6	447.4	412.7	392.2	381.5	377.0
30°	567.8	550.9	512.6	460.8	414.4	382.4	363.6	353.8	350.3
32.5°	524.0	509.8	472.4	424.2	380.6	351.2	334.3	326.2	322.7
35°	478.7	465.3	432.3	387.7	348.5	320.9	304.8	299.5	297.7
37.5°	435.8	424.2	392.2	351.2	315.5	291.4	277.2	273.7	271.9
40°	391.2	383.3	353.8	316.4	283.5	262.1	250.5	247.8	247.8
42.5°	351.2	342.2	316.4	282.5	253.1	231.7	223.8	221.0	221.9
45°	314.6	305.7	281.6	250.5	221.9	204.1	197.8	197.8	197.8
47.5°	280.7	272.8	250.5	218.4	195.2	180.9	174.6	174.6	175.6
50°	249.6	244.2	219.2	191.6	171.1	157.8	153.3	152.5	154.2
52.5°	220.1	213.9	191.6	166.7	147.0	136.3	131.9	131.0	131.9
55°	195.2	188.1	168.5	144.4	126.5	115.9	110.5	109.6	111.4
57.5°	171.1	165.8	145.3	123.9	107.0	96.3	91.8	90.1	91.0
60°	148.8	143.5	124.7	104.3	89.1	78.5	72.2	70.4	71.3
62.5°	128.4	123.9	106.1	86.4	71.3	61.5	55.3	50.8	52.6
65°	109.6	105.2	89.1	69.5	56.2	45.5	36.5	33.0	33.9
67.5°	93.6	88.2	73.1	55.3	41.8	30.4	20.5	18.8	18.8
70°	77.5	72.2	58.8	42.8	29.4	16.0	8.9	8.9	8.9
72.5°	62.4	58.0	45.5	32.1	18.8	7.2	3.5	3.5	3.5
75°	48.1	44.6	33.9	22.3	11.6	3.5	2.7	1.8	1.8
77.5°	35.7	32.1	24.1	15.1	7.2	1.8	1.8	1.8	1.8
80°	24.1	21.4	16.0	8.9	3.5	0.9	0.9	0.9	0.9
82.5°	14.2	12.5	8.9	4.4	1.8	0.9	0.9	0.9	0.9
85°	7.2	5.3	3.5	1.8	0.9	0.9	0.9	0.9	0.9
87.5°	1.8	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.0
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)