

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: P579843

Luminaire Tested: **HCC4S15D010MB-HM40525827-41WWBB**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P579843  
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: HCC4S15D010MB-HM40525827-41WWBB  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WALLWASH DISTRIBUTION, WHITE BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

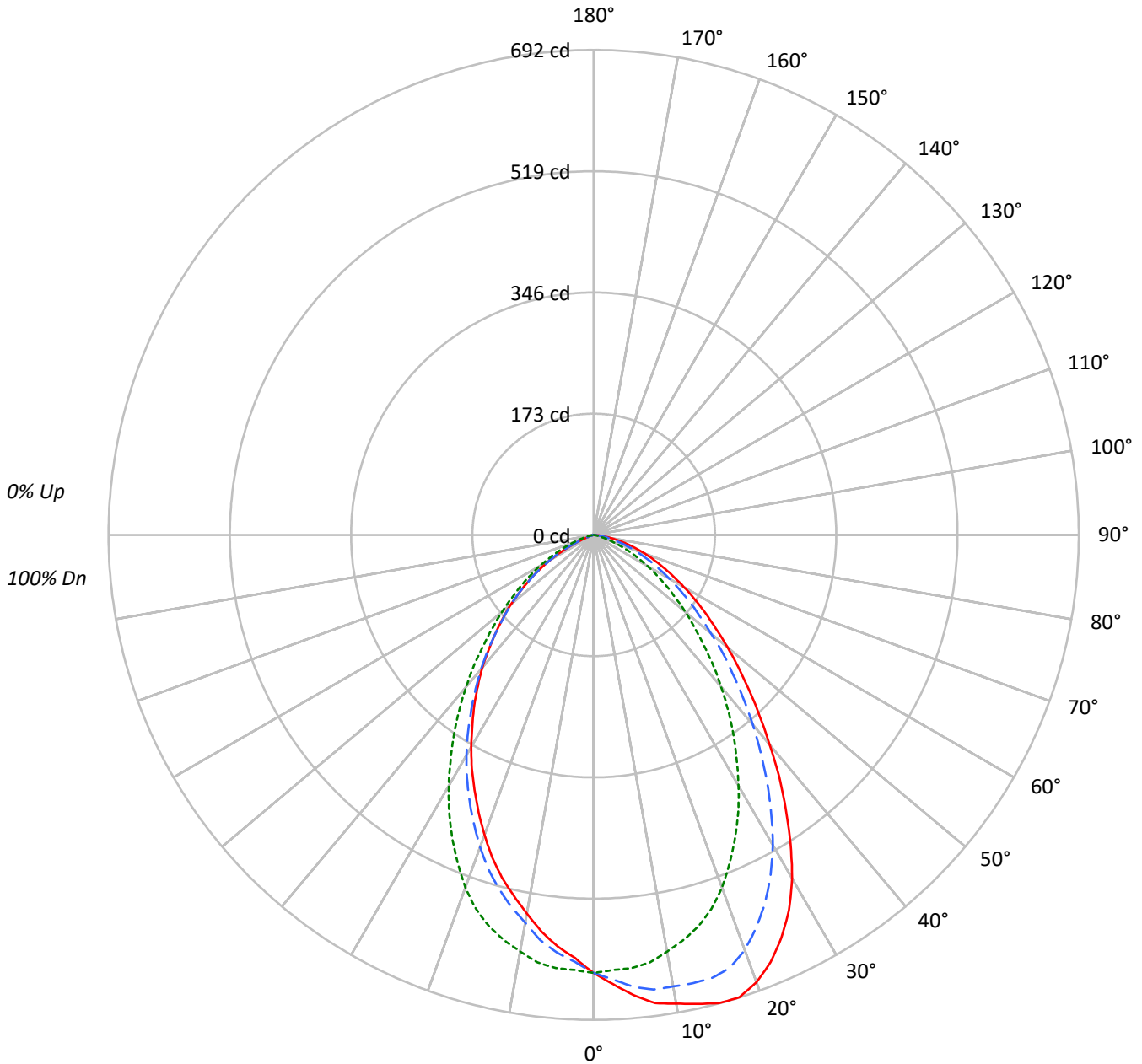
Lumens per Lamp: N/A  
Luminaire Lumens: 1079.5 lumens  
Efficiency: N/A  
Efficacy: 77.1 lumens/watt  
Spacing Criteria (0/90/45): 1.11 / 1.04 / 1.12  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

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: P579843  
CATALOG NUMBER: HCC4S15D010MB-HM40525827-41WWBB

### Luminous Intensity Polar Plot



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



TEST NUMBER: P579843

CATALOG NUMBER: HCC4S15D010MB-HM40525827-41WWBB

**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°	77091	77091	77091
5°	81670	76828	72978
10°	85056	75600	68699
15°	88315	73783	64602
20°	89140	70251	59737
25°	86272	64973	54684
30°	80642	58879	49764
35°	71886	52341	44706
40°	62829	45519	39803
45°	54738	38620	34434
50°	47762	32756	29513
55°	41870	27139	23892
60°	36634	21931	17540
65°	31930	16373	9865
70°	27877	10567	3210
75°	22875	5528	858
80°	17048	2486	639
85°	10190	1274	1274



TEST NUMBER: P579843  
 CATALOG NUMBER: HCC4S15D010MB-HM40525827-41WWBB

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	59.0	5.5
10°-20°	165.1	15.3
20°-30°	228.2	21.1
30°-40°	229.5	21.3
40°-50°	185.2	17.2
50°-60°	125.2	11.6
60°-70°	63.7	5.9
70°-80°	20.4	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°	452.3	41.9
0°-40°	681.8	63.2
0°-60°	992.2	91.9
0°-90°	1079.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1079.5	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	625	625	625	625	625	
5°	660	647	620	598	589	64
15°	692	654	578	523	506	195
25°	634	579	477	419	402	290
35°	477	431	348	304	297	298
45°	314	281	221	197	197	243
55°	195	168	126	110	111	175
65°	109	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	



TEST NUMBER: P579843

CATALOG NUMBER: HCC4S15D010MB-HM40525827-41WWBB

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	625.0	625.0	625.0	625.0	625.0	625.0	625.0	625.0	625.0
2.5°	641.8	638.3	634.8	628.5	621.4	614.3	609.9	606.2	604.5
5°	659.6	655.1	647.2	633.9	620.5	608.1	598.3	592.0	589.4
7.5°	673.9	667.6	654.3	635.6	615.2	595.6	583.2	574.3	570.8
10°	679.1	672.1	654.3	629.4	603.6	579.6	561.8	552.9	548.5
12.5°	685.4	677.4	655.1	624.1	592.0	563.6	543.1	531.7	527.1
15°	691.6	680.9	654.3	616.0	577.8	545.0	522.7	511.2	505.9
17.5°	691.6	679.1	647.2	602.7	559.2	524.5	499.6	486.3	481.9
20°	679.1	664.9	630.2	581.3	535.2	497.8	473.8	460.5	455.1
22.5°	659.6	643.7	606.2	555.7	506.8	470.3	446.3	433.9	428.5
25°	633.9	617.8	578.7	526.3	477.4	440.9	418.8	407.2	401.8
27.5°	603.6	585.8	546.7	494.3	446.3	411.6	391.1	380.4	376.0
30°	566.2	549.4	511.2	459.6	413.4	381.3	362.7	352.9	349.4
32.5°	522.7	508.5	471.2	423.2	379.6	350.3	333.4	325.4	321.8
35°	477.4	464.0	431.2	386.7	347.6	320.1	304.0	298.7	296.9
37.5°	434.7	423.2	391.1	350.3	314.7	290.7	276.5	272.9	271.2
40°	390.2	382.3	352.9	315.6	282.7	261.4	249.8	247.2	247.2
42.5°	350.3	341.3	315.6	281.9	252.4	231.2	223.1	220.5	221.4
45°	313.8	304.9	281.0	249.8	221.4	203.5	197.4	197.4	197.4
47.5°	280.0	272.1	249.8	217.8	194.7	180.4	174.2	174.2	175.1
50°	248.9	243.5	218.6	191.1	170.7	157.4	152.9	152.0	153.8
52.5°	219.6	213.3	191.1	166.2	146.7	136.0	131.6	130.6	131.6
55°	194.7	187.6	168.0	144.1	126.2	115.5	110.3	109.4	111.1
57.5°	170.7	165.3	144.9	123.6	106.7	96.0	91.5	89.8	90.7
60°	148.5	143.1	124.5	104.0	88.9	78.2	72.0	70.3	71.1
62.5°	128.0	123.6	105.7	86.2	71.1	61.3	55.1	50.7	52.4
65°	109.4	104.9	88.9	69.4	56.1	45.4	36.5	32.9	33.8
67.5°	93.3	88.0	72.9	55.1	41.7	30.2	20.5	18.6	18.6
70°	77.3	72.0	58.7	42.6	29.3	16.0	8.9	8.9	8.9
72.5°	62.2	57.8	45.4	31.9	18.6	7.2	3.5	3.5	3.5
75°	48.0	44.5	33.8	22.2	11.6	3.5	2.6	1.8	1.8
77.5°	35.6	31.9	24.0	15.1	7.2	1.8	1.8	1.8	1.8
80°	24.0	21.4	16.0	8.9	3.5	0.9	0.9	0.9	0.9
82.5°	14.2	12.4	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)