

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: P579933

Luminaire Tested: **HCC4S15D010MB-HM40525930-41WWBB**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P579933  
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-HM40525930-41WWBB  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WALLWASH DISTRIBUTION, WHITE BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

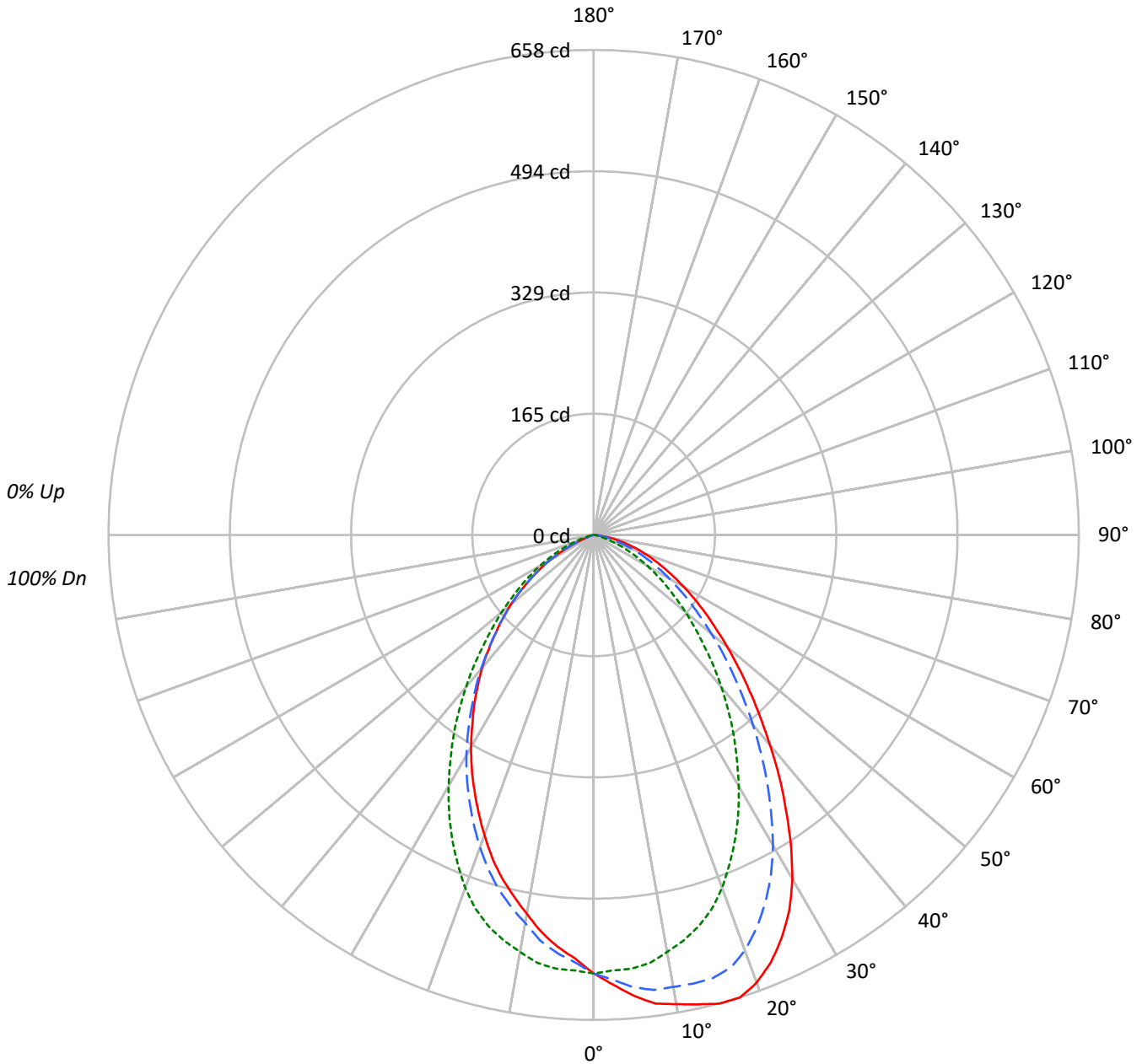
Lumens per Lamp: N/A  
Luminaire Lumens: 1027.5 lumens  
Efficiency: N/A  
Efficacy: 73.4 lumens/watt  
Spacing Criteria (0/90/45): 1.11 / 1.04 / 1.12  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

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: P579933  
CATALOG NUMBER: HCC4S15D010MB-HM40525930-41WWBB

### Luminous Intensity Polar Plot





TEST NUMBER: P579933

CATALOG NUMBER: HCC4S15D010MB-HM40525930-41WWBB

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

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

	0°	90°	180°
0°	73378	73378	73378
5°	77745	73139	69461
10°	80973	71955	65392
15°	84063	70233	61486
20°	84861	66865	56863
25°	82107	61829	52057
30°	76783	56045	47371
35°	68407	49826	42568
40°	59818	43329	37871
45°	52104	36754	32759
50°	45478	31182	28074
55°	39848	25849	22730
60°	34857	20870	16701
65°	30354	15556	9398
70°	26543	10098	3029
75°	21779	5242	810
80°	16266	2415	568
85°	9624	1132	1132



TEST NUMBER: P579933  
 CATALOG NUMBER: HCC4S15D010MB-HM40525930-41WWBB

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	56.1	5.5
10°-20°	157.1	15.3
20°-30°	217.3	21.1
30°-40°	218.4	21.3
40°-50°	176.3	17.2
50°-60°	119.2	11.6
60°-70°	60.7	5.9
70°-80°	19.4	1.9
80°-90°	3.0	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°	430.5	41.9
0°-40°	649.0	63.2
0°-60°	944.4	91.9
0°-90°	1027.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1027.5	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	595	595	595	595	595	
5°	628	616	591	570	561	61
15°	658	623	550	498	482	185
25°	603	551	454	398	382	276
35°	454	410	331	289	283	284
45°	299	267	211	188	188	231
55°	185	160	120	105	106	166
65°	104	85	53	35	32	104
75°	46	32	11	2	2	49
85°	7	3	1	1	1	9
90°	0	0	0	0	0	



TEST NUMBER: P579933

CATALOG NUMBER: HCC4S15D010MB-HM40525930-41WWBB

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	594.9	594.9	594.9	594.9	594.9	594.9	594.9	594.9	594.9
2.5°	610.9	607.5	604.2	598.3	591.5	584.8	580.4	577.1	575.4
5°	627.9	623.6	616.0	603.3	590.7	578.7	569.5	563.5	561.0
7.5°	641.4	635.5	622.7	605.0	585.6	566.9	555.1	546.7	543.3
10°	646.5	639.7	622.7	599.1	574.5	551.7	534.7	526.3	522.1
12.5°	652.4	644.8	623.6	594.0	563.5	536.4	517.0	506.0	501.8
15°	658.3	648.2	622.7	586.4	550.0	518.7	497.6	486.5	481.5
17.5°	658.3	646.5	616.0	573.7	532.2	499.3	475.5	462.9	458.7
20°	646.5	633.0	599.9	553.4	509.4	473.9	451.0	438.3	433.2
22.5°	627.9	612.6	577.1	528.8	482.3	447.6	424.8	413.0	407.8
25°	603.3	588.1	550.9	501.0	454.3	419.7	398.5	387.6	382.5
27.5°	574.5	557.6	520.4	470.5	424.8	391.8	372.4	362.1	357.9
30°	539.1	522.9	486.5	437.5	393.5	363.0	345.2	336.0	332.6
32.5°	497.6	484.0	448.4	402.7	361.3	333.4	317.3	309.7	306.3
35°	454.3	441.7	410.3	368.0	330.9	304.6	289.4	284.4	282.7
37.5°	413.8	402.7	372.4	333.4	299.6	276.7	263.2	259.8	258.1
40°	371.5	363.8	336.0	300.4	269.1	248.8	237.7	235.2	235.2
42.5°	333.4	325.0	300.4	268.2	240.4	220.0	212.4	209.9	210.7
45°	298.7	290.3	267.4	237.7	210.7	193.7	187.8	187.8	187.8
47.5°	266.5	258.9	237.7	207.3	185.3	171.8	165.9	165.9	166.7
50°	237.0	231.8	208.2	181.9	162.5	149.7	145.5	144.7	146.3
52.5°	209.0	203.1	181.9	158.3	139.6	129.5	125.2	124.4	125.2
55°	185.3	178.5	160.0	137.1	120.2	109.9	104.9	104.0	105.7
57.5°	162.5	157.4	137.9	117.6	101.5	91.4	87.2	85.5	86.3
60°	141.3	136.2	118.5	99.0	84.6	74.5	68.6	66.9	67.7
62.5°	121.9	117.6	100.7	82.1	67.7	58.4	52.4	48.2	49.9
65°	104.0	99.8	84.6	65.9	53.3	43.2	34.7	31.3	32.2
67.5°	88.8	83.8	69.4	52.4	39.8	28.8	19.4	17.7	17.7
70°	73.6	68.6	55.8	40.6	28.0	15.2	8.4	8.4	8.4
72.5°	59.2	55.0	43.2	30.5	17.7	6.8	3.4	3.4	3.4
75°	45.7	42.3	32.2	21.1	11.0	3.4	2.5	1.7	1.7
77.5°	33.9	30.5	22.9	14.4	6.8	1.7	1.7	1.7	1.7
80°	22.9	20.4	15.2	8.4	3.4	0.8	0.8	0.8	0.8
82.5°	13.5	11.8	8.4	4.2	1.7	0.8	0.8	0.8	0.8
85°	6.8	5.1	3.4	1.7	0.8	0.8	0.8	0.8	0.8
87.5°	1.7	0.8	0.8	0.8	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)