

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: P579791

Luminaire Tested: **HCC4S10D010MB-HM40525930-41WWWB**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P579791  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-18)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/9/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC4S10D010MB-HM40525930-41WWWB  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WALLWASH DISTRIBUTION, BLACK BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

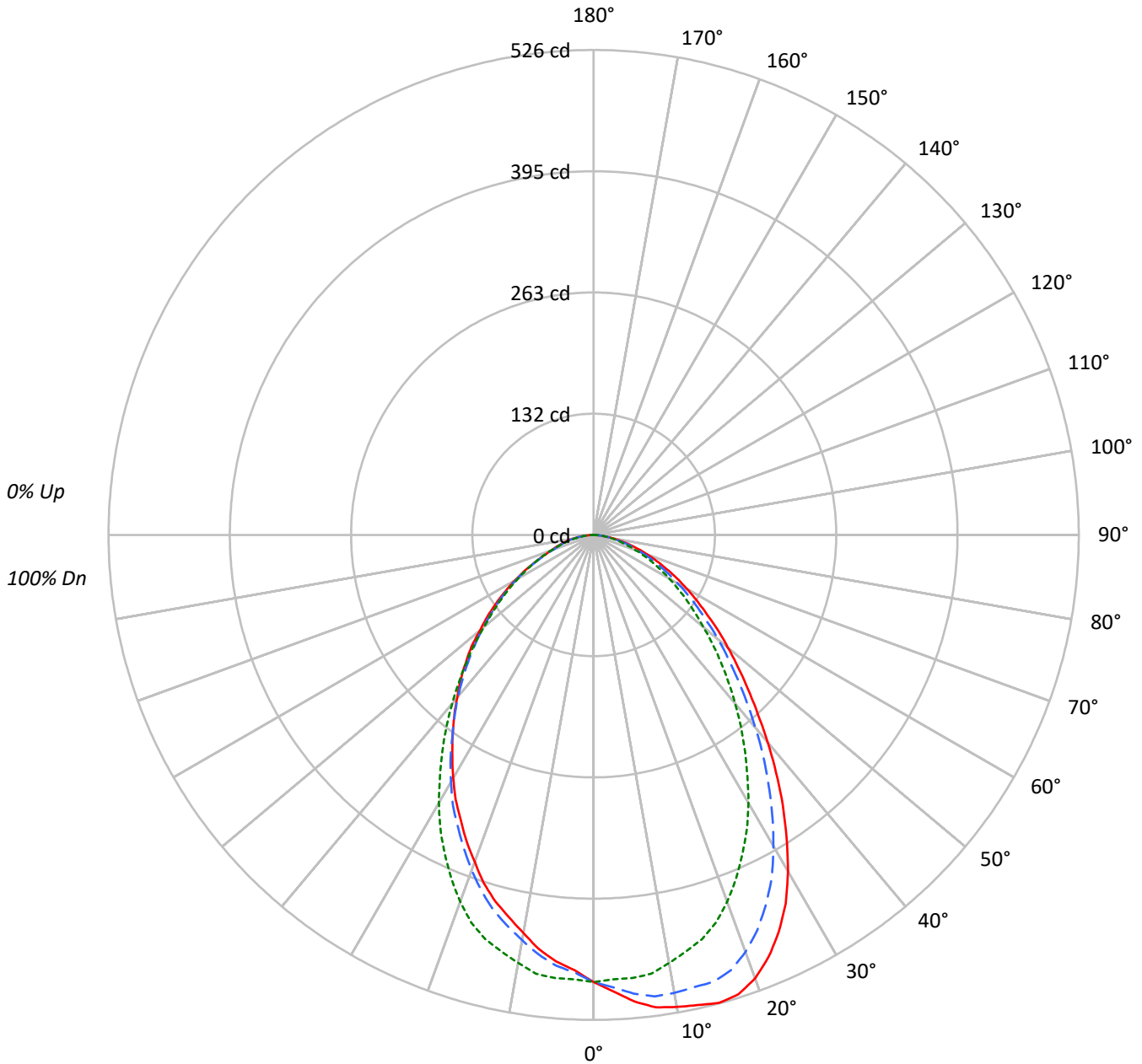
Lumens per Lamp: N/A  
Luminaire Lumens: 940.6 lumens  
Efficiency: N/A  
Efficacy: 95.0 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.07 / 1.15  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 9.9  
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: P579791  
CATALOG NUMBER: HCC4S10D010MB-HM40525930-41WWWB

### Luminous Intensity Polar Plot





TEST NUMBER: P579791

CATALOG NUMBER: HCC4S10D010MB-HM40525930-41WWWB

**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	110	106	103	99	108	104	101	98	100	97	95	96	94	92	92	91	89	87								
2	102	95	89	84	99	93	87	83	89	85	81	86	82	79	83	80	77	75								
3	94	85	77	72	92	83	76	71	80	75	70	78	73	69	75	71	68	66								
4	87	76	68	62	85	75	68	62	72	66	61	70	65	60	68	63	60	58								
5	81	69	61	55	79	68	60	55	66	59	54	64	58	53	62	57	53	51								
6	75	63	55	49	73	62	54	49	60	53	48	59	53	48	57	52	47	46								
7	70	58	50	44	68	57	49	44	55	48	43	54	48	43	53	47	43	41								
8	65	53	45	40	64	52	45	40	51	44	39	50	44	39	49	43	39	37								
9	61	49	41	36	60	48	41	36	47	41	36	46	40	36	45	40	36	34								
10	58	45	38	33	57	45	38	33	44	38	33	43	37	33	42	37	33	31								

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

	0°	90°	180°
0°	59823	59823	59823
5°	62899	59742	57501
10°	65104	59042	54909
15°	67105	57949	52547
20°	67180	55563	49512
25°	64646	51948	46436
30°	60033	47799	43355
35°	53801	43035	40129
40°	47226	38386	37082
45°	41272	33980	34207
50°	36440	29743	30837
55°	32128	26386	27719
60°	28715	23362	24250
65°	25450	20518	20518
70°	22251	17527	17527
75°	18968	14869	16585
80°	15059	13283	15059
85°	9624	11463	14152



TEST NUMBER: P579791  
 CATALOG NUMBER: HCC4S10D010MB-HM40525930-41WWWB

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	46.0	4.9
10°-20°	129.4	13.8
20°-30°	181.3	19.3
30°-40°	186.8	19.9
40°-50°	159.0	16.9
50°-60°	117.8	12.5
60°-70°	73.9	7.9
70°-80°	36.7	3.9
80°-90°	9.6	1.0
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°	356.7	37.9
0°-40°	543.4	57.8
0°-60°	820.3	87.2
0°-90°	940.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	940.6	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	485	485	485	485	485	
5°	508	499	482	469	464	49
15°	526	502	454	421	412	148
25°	475	442	382	349	341	217
35°	357	331	286	267	266	223
45°	237	220	195	191	196	184
55°	149	138	123	125	129	135
65°	87	78	70	69	70	87
75°	40	36	31	34	35	43
85°	7	7	8	9	10	9
90°	0	0	0	0	0	

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



TEST NUMBER: P579791

CATALOG NUMBER: HCC4S10D010MB-HM40525930-41WWWB

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	485.0	485.0	485.0	485.0	485.0	485.0	485.0	485.0	485.0
2.5°	495.6	493.8	491.3	486.8	482.5	478.8	475.0	473.2	472.6
5°	508.0	504.4	499.4	491.3	482.5	475.0	468.9	465.7	464.4
7.5°	516.8	513.0	504.9	492.5	480.0	468.9	458.8	454.5	453.3
10°	519.8	515.5	504.4	487.5	471.4	457.6	446.4	440.9	438.4
12.5°	522.3	516.8	502.4	482.5	462.6	445.8	433.9	426.5	424.6
15°	525.5	519.3	501.9	477.5	453.8	433.9	420.8	414.0	411.5
17.5°	522.3	515.5	495.0	467.6	440.9	419.0	404.7	398.5	396.0
20°	511.8	504.4	481.3	452.0	423.3	400.9	386.7	380.4	377.2
22.5°	495.6	487.5	463.8	432.7	403.4	381.7	367.9	361.8	359.8
25°	475.0	466.9	442.0	410.2	381.7	360.5	348.7	343.1	341.2
27.5°	450.8	442.7	418.4	387.3	359.8	339.9	330.6	325.0	323.8
30°	421.5	413.4	389.8	361.1	335.6	316.9	309.4	305.1	304.4
32.5°	389.1	382.3	360.5	334.3	310.1	294.5	288.9	285.8	285.2
35°	357.3	349.9	330.6	306.9	285.8	272.1	267.1	266.5	266.5
37.5°	325.0	317.5	301.9	280.2	262.1	249.7	247.9	248.4	248.4
40°	293.3	286.4	272.7	254.7	238.4	229.1	228.5	229.8	230.3
42.5°	263.3	257.8	245.4	229.8	216.0	208.6	209.2	211.7	213.6
45°	236.6	231.6	220.4	206.7	194.8	189.2	191.2	194.3	196.1
47.5°	212.4	207.9	197.3	184.9	174.9	171.3	173.7	177.4	179.9
50°	189.9	186.2	176.2	163.1	155.0	152.5	155.7	159.4	160.7
52.5°	170.0	166.3	155.7	144.4	138.3	137.0	140.1	143.2	145.1
55°	149.4	146.3	137.6	127.7	122.7	122.0	125.2	127.7	128.9
57.5°	132.6	129.5	121.4	112.7	108.3	107.8	110.8	112.7	113.3
60°	116.4	113.3	105.8	97.8	94.7	94.7	96.5	97.8	98.3
62.5°	101.5	98.3	91.5	84.7	82.2	82.2	82.2	82.8	84.7
65°	87.2	84.7	78.4	72.3	70.3	69.1	69.1	69.1	70.3
67.5°	74.1	71.6	66.6	61.0	59.2	57.2	56.7	57.9	57.9
70°	61.7	59.7	54.7	50.4	48.6	46.7	46.1	48.6	48.6
72.5°	50.4	48.6	45.4	41.1	39.3	38.6	39.8	41.1	41.8
75°	39.8	38.0	35.5	33.0	31.2	31.8	33.6	34.3	34.8
77.5°	29.9	29.2	26.7	24.9	24.9	25.5	26.7	28.0	28.7
80°	21.2	20.6	19.3	18.1	18.7	19.9	20.6	21.7	21.2
82.5°	13.1	13.1	12.4	12.4	13.1	14.3	14.9	15.6	16.2
85°	6.8	6.8	6.8	7.5	8.1	8.8	9.3	10.0	10.0
87.5°	1.8	2.5	2.5	3.1	3.8	3.8	4.3	4.3	4.3
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)