

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: P579719

Luminaire Tested: **HCC4S10D010MB-HM40525830-41WWWB**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P579719  
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-HM40525830-41WWWB  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WALLWASH DISTRIBUTION, BLACK BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

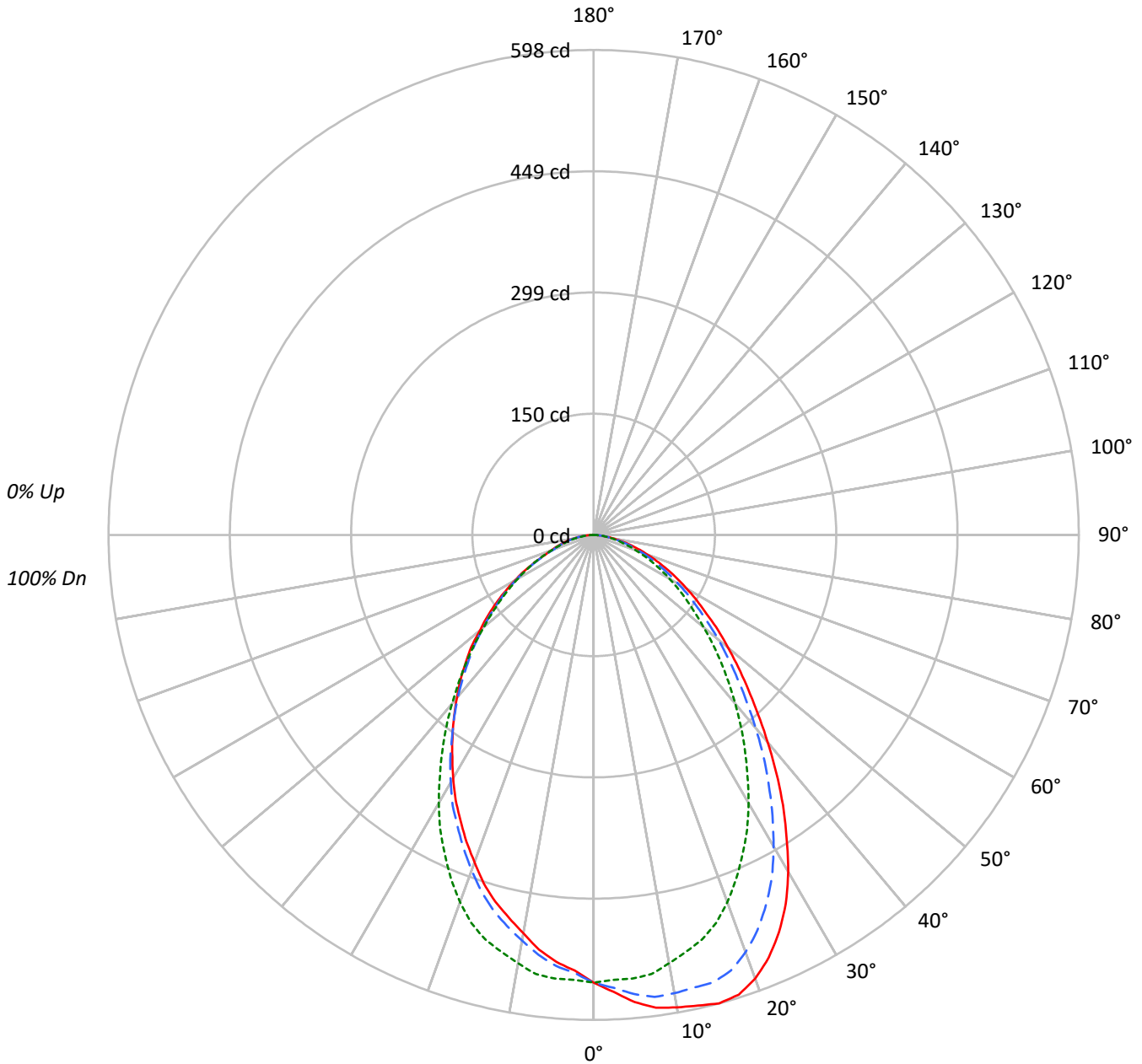
Lumens per Lamp: N/A  
Luminaire Lumens: 1070.3 lumens  
Efficiency: N/A  
Efficacy: 108.1 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.07 / 1.15  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

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: P579719  
CATALOG NUMBER: HCC4S10D010MB-HM40525830-41WWWB

### Luminous Intensity Polar Plot





TEST NUMBER: P579719

CATALOG NUMBER: HCC4S10D010MB-HM40525830-41WWWB

**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°	68074	68074	68074
5°	71578	67988	65437
10°	74084	67171	62474
15°	76350	65943	59800
20°	76434	63229	56364
25°	73574	59107	52846
30°	68322	54393	49337
35°	61240	48968	45670
40°	53731	43684	42202
45°	46976	38690	38934
50°	41468	33850	35078
55°	36558	29999	31547
60°	32687	26569	27629
65°	28953	23349	23349
70°	25281	19943	19943
75°	21589	16871	18920
80°	17119	15130	17119
85°	10897	13020	16134



TEST NUMBER: P579719  
 CATALOG NUMBER: HCC4S10D010MB-HM40525830-41WWWB

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	52.3	4.9
10°-20°	147.3	13.8
20°-30°	206.3	19.3
30°-40°	212.5	19.9
40°-50°	180.9	16.9
50°-60°	134.1	12.5
60°-70°	84.1	7.9
70°-80°	41.8	3.9
80°-90°	11.0	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°	405.8	37.9
0°-40°	618.4	57.8
0°-60°	933.4	87.2
0°-90°	1070.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1070.3	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	552	552	552	552	552	
5°	578	568	549	534	528	56
15°	598	571	516	479	468	168
25°	541	503	434	397	388	247
35°	407	376	325	304	303	254
45°	269	251	222	218	223	209
55°	170	157	140	142	147	154
65°	99	89	80	79	80	99
75°	45	40	35	38	40	48
85°	8	8	9	11	11	10
90°	0	0	0	0	0	

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



TEST NUMBER: P579719

CATALOG NUMBER: HCC4S10D010MB-HM40525830-41WWWB

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	551.9	551.9	551.9	551.9	551.9	551.9	551.9	551.9	551.9
2.5°	564.0	561.8	559.0	554.0	549.1	544.8	540.6	538.4	537.7
5°	578.1	573.9	568.2	559.0	549.1	540.6	533.5	530.0	528.5
7.5°	588.0	583.8	574.6	560.4	546.2	533.5	522.1	517.2	515.7
10°	591.5	586.6	573.9	554.8	536.3	520.7	508.0	501.6	498.8
12.5°	594.4	588.0	571.7	549.1	526.4	507.3	493.8	485.4	483.2
15°	597.9	590.8	571.0	543.4	516.4	493.8	479.0	471.1	468.3
17.5°	594.4	586.6	563.2	532.0	501.6	476.8	460.5	453.4	450.5
20°	582.3	573.9	547.6	514.4	481.7	456.2	440.0	432.9	429.4
22.5°	564.0	554.8	527.8	492.4	459.1	434.3	418.7	411.6	409.5
25°	540.6	531.3	503.0	466.9	434.3	410.2	396.7	390.3	388.3
27.5°	512.9	503.7	476.1	440.6	409.5	386.8	376.2	369.8	368.4
30°	479.7	470.4	443.5	410.9	381.9	360.6	352.1	347.2	346.4
32.5°	442.8	435.1	410.2	380.4	352.8	335.1	328.8	325.2	324.4
35°	406.7	398.2	376.2	349.3	325.2	309.6	304.0	303.3	303.3
37.5°	369.8	361.3	343.6	318.9	298.3	284.0	282.0	282.7	282.7
40°	333.7	325.9	310.3	289.7	271.3	260.7	260.0	261.4	262.1
42.5°	299.6	293.3	279.2	261.4	245.8	237.4	238.1	240.9	243.0
45°	269.3	263.6	250.8	235.2	221.8	215.4	217.5	221.0	223.2
47.5°	241.6	236.6	224.6	210.4	199.0	194.8	197.7	201.9	204.7
50°	216.1	211.8	200.5	185.6	176.4	173.5	177.1	181.4	182.8
52.5°	193.5	189.1	177.1	164.3	157.3	155.9	159.4	163.0	165.1
55°	170.0	166.5	156.6	145.2	139.5	138.8	142.4	145.2	146.7
57.5°	150.9	147.4	138.2	128.3	123.2	122.6	126.1	128.3	128.9
60°	132.5	128.9	120.4	111.2	107.7	107.7	109.8	111.2	112.0
62.5°	115.5	112.0	104.1	96.4	93.5	93.5	93.5	94.2	96.4
65°	99.2	96.4	89.2	82.2	80.0	78.6	78.6	78.6	80.0
67.5°	84.3	81.5	75.8	69.4	67.3	65.2	64.5	65.9	65.9
70°	70.1	68.1	62.4	57.4	55.3	53.1	52.5	55.3	55.3
72.5°	57.4	55.3	51.7	46.8	44.6	43.9	45.3	46.8	47.5
75°	45.3	43.2	40.4	37.6	35.4	36.2	38.2	38.9	39.7
77.5°	34.0	33.3	30.5	28.3	28.3	29.0	30.5	31.9	32.5
80°	24.1	23.3	22.0	20.6	21.3	22.6	23.3	24.8	24.1
82.5°	14.9	14.9	14.2	14.2	14.9	16.3	17.0	17.8	18.4
85°	7.7	7.7	7.7	8.5	9.2	9.9	10.6	11.4	11.4
87.5°	2.2	2.8	2.8	3.5	4.2	4.2	5.0	5.0	5.0
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)