

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: P579753

Luminaire Tested: **HCC4S10D010MW-HM40525840-41WWBB**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P579753  
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: HCC4S10D010MW-HM40525840-41WWBB  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WALLWASH DISTRIBUTION, WHITE BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

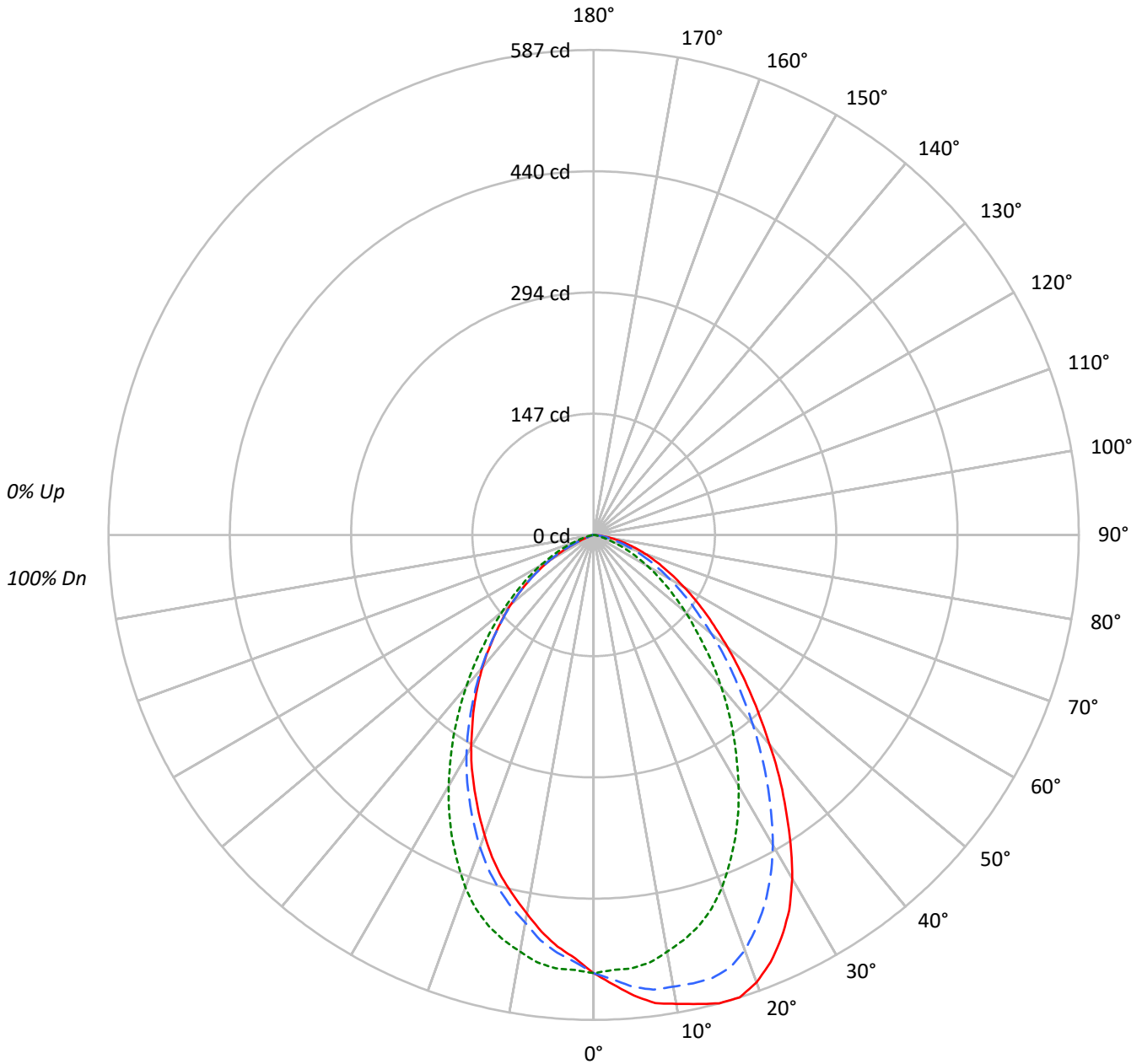
Lumens per Lamp: N/A  
Luminaire Lumens: 916.0 lumens  
Efficiency: N/A  
Efficacy: 92.5 lumens/watt  
Spacing Criteria (0/90/45): 1.11 / 1.04 / 1.12  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 9.9  
Input Voltage (V): NR  
Input Current (Ain): 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: P579753  
CATALOG NUMBER: HCC4S10D010MW-HM40525840-41WWBB

### Luminous Intensity Polar Plot





TEST NUMBER: P579753

CATALOG NUMBER: HCC4S10D010MW-HM40525840-41WWBB

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	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°	65410	65410	65410
5°	69300	65202	61933
10°	72181	64152	58291
15°	74945	62623	54820
20°	75646	59606	50693
25°	73193	55133	46395
30°	68436	49949	42215
35°	60999	44420	37945
40°	53329	38628	33765
45°	46453	32777	29218
50°	40528	27805	25042
55°	35526	23031	20279
60°	31083	18601	14875
65°	27055	13893	8376
70°	23694	8980	2705
75°	19396	4670	715
80°	14491	2202	568
85°	8491	1132	1132



TEST NUMBER: P579753  
 CATALOG NUMBER: HCC4S10D010MW-HM40525840-41WWBB

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	50.1	5.5
10°-20°	140.1	15.3
20°-30°	193.7	21.1
30°-40°	194.7	21.3
40°-50°	157.2	17.2
50°-60°	106.2	11.6
60°-70°	54.1	5.9
70°-80°	17.3	1.9
80°-90°	2.7	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°	383.8	41.9
0°-40°	578.5	63.2
0°-60°	841.9	91.9
0°-90°	916.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	916.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	530	530	530	530	530	
5°	560	549	527	508	500	54
15°	587	555	490	444	429	165
25°	538	491	405	355	341	246
35°	405	366	295	258	252	253
45°	266	238	188	168	168	206
55°	165	143	107	94	94	148
65°	93	75	48	31	29	93
75°	41	29	10	2	2	44
85°	6	3	1	1	1	8
90°	0	0	0	0	0	

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



TEST NUMBER: P579753

CATALOG NUMBER: HCC4S10D010MW-HM40525840-41WWBB

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	530.3	530.3	530.3	530.3	530.3	530.3	530.3	530.3	530.3
2.5°	544.6	541.6	538.6	533.3	527.2	521.2	517.4	514.5	512.9
5°	559.7	555.9	549.2	537.8	526.6	516.0	507.7	502.4	500.2
7.5°	571.7	566.5	555.2	539.3	522.0	505.4	494.8	487.3	484.3
10°	576.3	570.3	555.2	534.1	512.2	491.8	476.7	469.2	465.4
12.5°	581.6	574.8	555.9	529.5	502.4	478.3	460.9	451.1	447.3
15°	586.9	577.8	555.2	522.8	490.4	462.4	443.6	433.7	429.3
17.5°	586.9	576.3	549.2	511.4	474.4	445.1	423.9	412.6	408.9
20°	576.3	564.2	534.9	493.3	454.1	422.4	402.1	390.8	386.2
22.5°	559.7	546.1	514.5	471.5	429.9	399.1	378.7	368.1	363.6
25°	537.8	524.3	491.0	446.6	405.1	374.2	355.3	345.5	340.9
27.5°	512.2	497.1	464.0	419.4	378.7	349.3	332.0	322.9	319.1
30°	480.5	466.1	433.7	390.0	350.7	323.6	307.7	299.5	296.4
32.5°	443.6	431.5	399.8	359.0	322.1	297.2	282.9	276.1	273.1
35°	405.1	393.7	365.9	328.1	295.0	271.5	258.0	253.4	252.0
37.5°	368.8	359.0	332.0	297.2	267.1	246.7	234.5	231.6	230.1
40°	331.2	324.3	299.5	267.8	239.9	221.8	212.0	209.7	209.7
42.5°	297.2	289.6	267.8	239.1	214.3	196.1	189.4	187.1	187.9
45°	266.3	258.8	238.4	212.0	187.9	172.7	167.5	167.5	167.5
47.5°	237.6	230.8	212.0	184.8	165.2	153.2	147.8	147.8	148.6
50°	211.2	206.7	185.6	162.2	144.9	133.5	129.7	128.9	130.5
52.5°	186.3	181.1	162.2	141.1	124.5	115.4	111.6	110.8	111.6
55°	165.2	159.2	142.6	122.2	107.1	98.1	93.5	92.7	94.3
57.5°	144.9	140.3	122.9	104.8	90.5	81.5	77.7	76.1	76.9
60°	126.0	121.4	105.6	88.3	75.4	66.3	61.1	59.6	60.3
62.5°	108.7	104.8	89.8	73.2	60.3	52.0	46.8	43.0	44.5
65°	92.7	89.0	75.4	58.8	47.6	38.5	31.0	27.9	28.7
67.5°	79.2	74.7	61.9	46.8	35.5	25.6	17.3	15.8	15.8
70°	65.7	61.1	49.7	36.2	24.9	13.5	7.5	7.5	7.5
72.5°	52.8	49.0	38.5	27.2	15.8	6.0	3.1	3.1	3.1
75°	40.7	37.7	28.7	18.9	9.8	3.1	2.3	1.5	1.5
77.5°	30.2	27.2	20.4	12.9	6.0	1.5	1.5	1.5	1.5
80°	20.4	18.1	13.5	7.5	3.1	0.8	0.8	0.8	0.8
82.5°	12.1	10.6	7.5	3.8	1.5	0.8	0.8	0.8	0.8
85°	6.0	4.6	3.1	1.5	0.8	0.8	0.8	0.8	0.8
87.5°	1.5	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)