

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: P579735

Luminaire Tested: **HCC4W10D010MB-HM40525835-41WWBB**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P579735  
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: HCC4W10D010MB-HM40525835-41WWBB  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WALLWASH DISTRIBUTION, WHITE BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

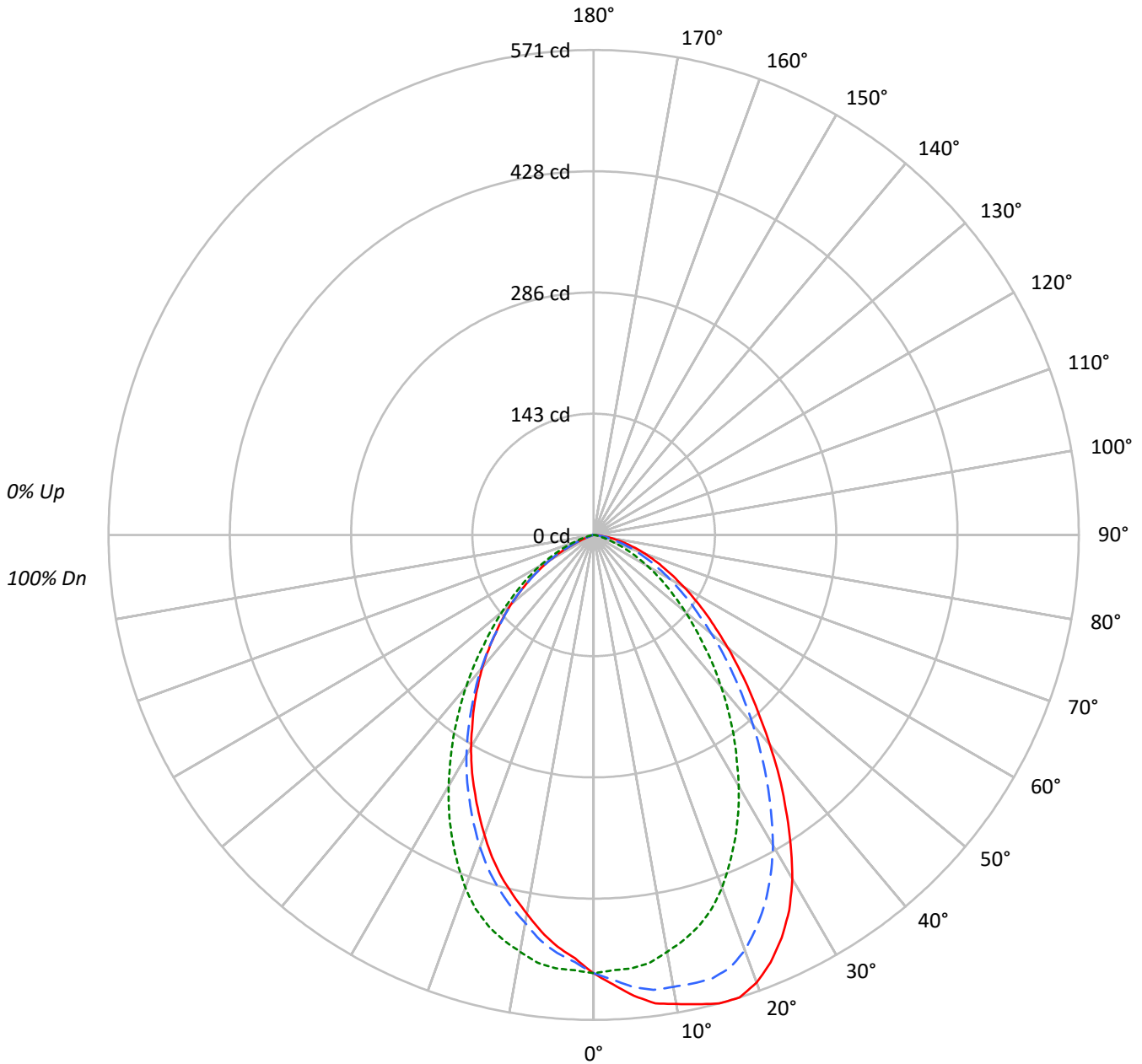
Lumens per Lamp: N/A  
Luminaire Lumens: 891.3 lumens  
Efficiency: N/A  
Efficacy: 90.0 lumens/watt  
Spacing Criteria (0/90/45): 1.11 / 1.04 / 1.12  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 9.9  
Input Voltage (V): NR  
Input Current (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: P579735  
CATALOG NUMBER: HCC4W10D010MB-HM40525835-41WWBB

### Luminous Intensity Polar Plot



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



TEST NUMBER: P579735

CATALOG NUMBER: HCC4W10D010MB-HM40525835-41WWBB

**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	42	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°	63659	63659	63659
5°	67431	63431	60262
10°	70239	62424	56725
15°	72915	60937	53326
20°	73612	58005	49341
25°	71233	53649	45157
30°	66599	48610	41090
35°	59358	43216	36906
40°	51896	37581	32847
45°	45197	31887	28433
50°	39434	27038	24370
55°	34579	22408	19720
60°	30244	18107	14481
65°	26326	13484	8143
70°	23009	8727	2669
75°	18872	4575	715
80°	14064	2131	497
85°	8350	991	991



TEST NUMBER: P579735  
 CATALOG NUMBER: HCC4W10D010MB-HM40525835-41WWBB

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	48.7	5.5
10°-20°	136.3	15.3
20°-30°	188.5	21.1
30°-40°	189.5	21.3
40°-50°	152.9	17.2
50°-60°	103.4	11.6
60°-70°	52.6	5.9
70°-80°	16.9	1.9
80°-90°	2.6	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°	373.5	41.9
0°-40°	563.0	63.2
0°-60°	819.3	91.9
0°-90°	891.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	891.3	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	516	516	516	516	516	
5°	545	534	512	494	487	52
15°	571	540	477	432	418	161
25°	523	478	394	346	332	240
35°	394	356	287	251	245	246
45°	259	232	183	163	163	201
55°	161	139	104	91	92	144
65°	90	73	46	30	28	90
75°	40	28	10	2	2	43
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: P579735

CATALOG NUMBER: HCC4W10D010MB-HM40525835-41WWBB

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	516.1	516.1	516.1	516.1	516.1	516.1	516.1	516.1	516.1
2.5°	530.0	527.0	524.2	518.9	513.1	507.2	503.6	500.6	499.1
5°	544.6	541.0	534.4	523.4	512.3	502.1	494.0	488.9	486.7
7.5°	556.4	551.2	540.3	524.8	508.0	491.8	481.5	474.2	471.2
10°	560.8	555.0	540.3	519.7	498.4	478.6	464.0	456.6	452.9
12.5°	565.9	559.3	541.0	515.3	488.9	465.4	448.5	438.9	435.3
15°	571.0	562.3	540.3	508.7	477.2	450.0	431.6	422.1	417.6
17.5°	571.0	560.8	534.4	497.6	461.7	433.1	412.5	401.5	397.8
20°	560.8	549.1	520.4	480.1	441.9	411.0	391.2	380.2	375.9
22.5°	544.6	531.4	500.6	458.8	418.4	388.3	368.5	358.2	353.8
25°	523.4	510.2	477.8	434.6	394.2	364.0	345.7	336.2	331.8
27.5°	498.4	483.8	451.4	408.1	368.5	339.9	323.0	314.2	310.6
30°	467.6	453.6	422.1	379.5	341.3	314.9	299.5	291.4	288.5
32.5°	431.6	419.9	389.1	349.4	313.4	289.2	275.3	268.7	265.7
35°	394.2	383.2	356.0	319.3	287.0	264.2	251.0	246.6	245.1
37.5°	358.9	349.4	323.0	289.2	259.8	240.0	228.3	225.3	223.8
40°	322.3	315.7	291.4	260.6	233.4	215.8	206.3	204.0	204.0
42.5°	289.2	281.9	260.6	232.7	208.5	190.8	184.2	182.1	182.8
45°	259.1	251.8	231.9	206.3	182.8	168.1	163.0	163.0	163.0
47.5°	231.2	224.6	206.3	179.8	160.8	149.0	143.8	143.8	144.6
50°	205.5	201.1	180.6	157.8	140.9	130.0	126.2	125.5	127.0
52.5°	181.3	176.2	157.8	137.2	121.1	112.3	108.7	107.9	108.7
55°	160.8	154.9	138.7	118.9	104.2	95.5	91.0	90.2	91.7
57.5°	140.9	136.6	119.6	102.1	88.1	79.3	75.6	74.1	74.9
60°	122.6	118.2	102.8	85.9	73.4	64.6	59.4	58.0	58.7
62.5°	105.7	102.1	87.4	71.2	58.7	50.6	45.5	41.9	43.4
65°	90.2	86.6	73.4	57.2	46.2	37.4	30.0	27.2	27.9
67.5°	77.0	72.7	60.2	45.5	34.5	24.9	16.8	15.4	15.4
70°	63.8	59.4	48.5	35.3	24.2	13.2	7.4	7.4	7.4
72.5°	51.4	47.7	37.4	26.4	15.4	5.9	3.0	3.0	3.0
75°	39.6	36.8	27.9	18.3	9.6	3.0	2.2	1.5	1.5
77.5°	29.4	26.4	19.8	12.5	5.9	1.5	1.5	1.5	1.5
80°	19.8	17.6	13.2	7.4	3.0	0.7	0.7	0.7	0.7
82.5°	11.7	10.2	7.4	3.6	1.5	0.7	0.7	0.7	0.7
85°	5.9	4.4	3.0	1.5	0.7	0.7	0.7	0.7	0.7
87.5°	1.5	0.7	0.7	0.7	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)