

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: P580198

Luminaire Tested: **HCC4W25D010MB-HM40525927-41WWBB**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P580198  
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: HCC4W25D010MB-HM40525927-41WWBB  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WALLWASH DISTRIBUTION, WHITE BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

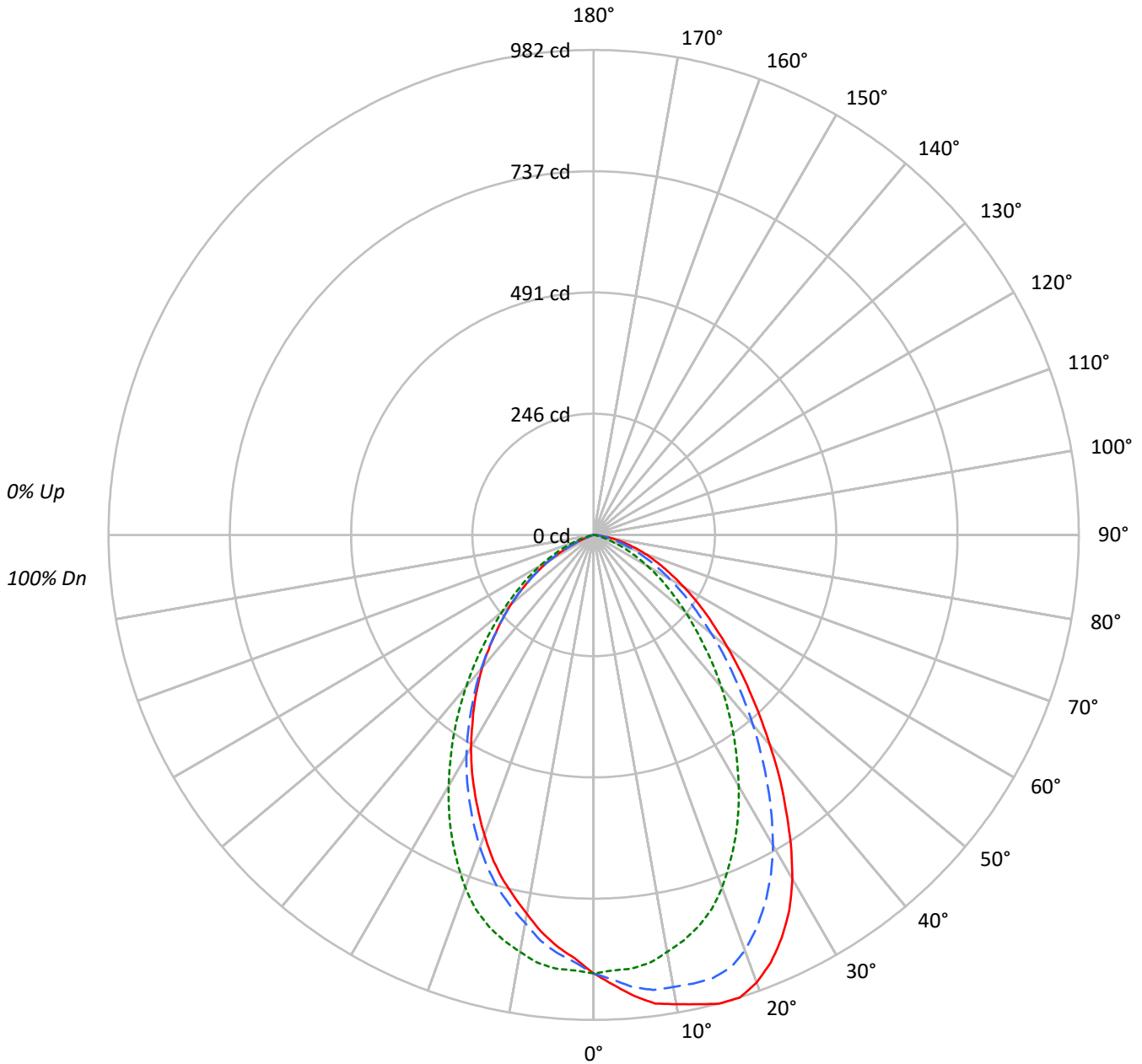
Lumens per Lamp: N/A  
Luminaire Lumens: 1533.3 lumens  
Efficiency: N/A  
Efficacy: 57.2 lumens/watt  
Spacing Criteria (0/90/45): 1.11 / 1.04 / 1.12  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 26.8  
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: P580198  
CATALOG NUMBER: HCC4W25D010MB-HM40525927-41WWBB

### Luminous Intensity Polar Plot



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



TEST NUMBER: P580198

CATALOG NUMBER: HCC4W25D010MB-HM40525927-41WWBB

**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	43	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°	109494	109494	109494
5°	116016	109132	103659
10°	120827	107388	97581
15°	125462	104814	91750
20°	126628	99785	84874
25°	122542	92287	77670
30°	114568	83633	70687
35°	102106	74340	63513
40°	89251	64664	56517
45°	77747	54843	48895
50°	67853	46515	41928
55°	59460	38558	33934
60°	52027	31132	24916
65°	45355	23232	14009
70°	39634	15039	4544
75°	32502	7816	1191
80°	24222	3623	852
85°	14152	1698	1698



TEST NUMBER: P580198

CATALOG NUMBER: HCC4W25D010MB-HM40525927-41WWBB

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	83.8	5.5
10°-20°	234.5	15.3
20°-30°	324.2	21.1
30°-40°	326.0	21.3
40°-50°	263.0	17.2
50°-60°	177.9	11.6
60°-70°	90.5	5.9
70°-80°	29.0	1.9
80°-90°	4.4	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°	642.5	41.9
0°-40°	968.5	63.2
0°-60°	1409.4	91.9
0°-90°	1533.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1533.3	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	888	888	888	888	888	
5°	937	919	881	850	837	90
15°	982	929	821	742	718	277
25°	900	822	678	595	571	412
35°	678	612	494	432	422	424
45°	446	399	314	280	280	345
55°	276	239	179	157	158	248
65°	155	126	80	52	48	156
75°	68	48	16	4	2	74
85°	10	5	1	1	1	14
90°	0	0	0	0	0	



TEST NUMBER: P580198

CATALOG NUMBER: HCC4W25D010MB-HM40525927-41WWBB

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	887.7	887.7	887.7	887.7	887.7	887.7	887.7	887.7	887.7
2.5°	911.7	906.7	901.6	892.8	882.7	872.6	866.3	861.2	858.7
5°	937.0	930.6	919.2	900.4	881.4	863.7	849.8	841.0	837.2
7.5°	957.2	948.4	929.4	902.9	873.8	846.1	828.3	815.7	810.7
10°	964.7	954.7	929.4	894.1	857.4	823.3	798.1	785.4	779.1
12.5°	973.5	962.2	930.6	886.5	841.0	800.6	771.6	755.1	748.8
15°	982.5	967.2	929.4	875.1	820.8	774.0	742.5	726.1	718.5
17.5°	982.5	964.7	919.2	856.1	794.3	745.0	709.7	690.7	684.4
20°	964.7	944.5	895.3	825.9	760.2	707.1	673.0	654.1	646.6
22.5°	937.0	914.3	861.2	789.2	719.7	668.0	633.9	616.2	608.6
25°	900.4	877.6	822.0	747.5	678.1	626.4	594.8	578.4	570.7
27.5°	857.4	832.2	776.6	702.1	633.9	584.6	555.6	540.5	534.1
30°	804.4	780.4	726.1	652.8	587.2	541.7	515.2	501.3	496.3
32.5°	742.5	722.3	669.3	601.1	539.2	497.6	473.5	462.2	457.1
35°	678.1	659.1	612.5	549.3	493.7	454.5	431.8	424.3	421.8
37.5°	617.5	601.1	555.6	497.6	447.0	412.9	392.7	387.7	385.1
40°	554.3	542.9	501.3	448.3	401.6	371.2	354.8	351.0	351.0
42.5°	497.6	484.9	448.3	400.3	358.6	328.3	316.9	313.2	314.4
45°	445.7	433.1	399.0	354.8	314.4	289.1	280.3	280.3	280.3
47.5°	397.7	386.3	354.8	309.3	276.5	256.3	247.5	247.5	248.7
50°	353.6	346.0	310.6	271.5	242.4	223.5	217.2	216.0	218.5
52.5°	311.9	303.0	271.5	236.2	208.3	193.2	186.8	185.6	186.8
55°	276.5	266.4	238.7	204.6	179.3	164.2	156.6	155.4	157.8
57.5°	242.4	234.8	205.8	175.6	151.5	136.4	130.1	127.6	128.8
60°	210.9	203.3	176.8	147.8	126.2	111.1	102.3	99.8	101.0
62.5°	181.9	175.6	150.3	122.5	101.0	87.2	78.2	72.0	74.5
65°	155.4	149.0	126.2	98.4	79.6	64.4	51.8	46.7	48.0
67.5°	132.5	125.0	103.5	78.2	59.4	42.9	29.0	26.5	26.5
70°	109.9	102.3	83.3	60.6	41.7	22.7	12.6	12.6	12.6
72.5°	88.4	82.1	64.4	45.5	26.5	10.0	5.1	5.1	5.1
75°	68.2	63.1	48.0	31.6	16.4	5.1	3.8	2.5	2.5
77.5°	50.5	45.5	34.1	21.5	10.0	2.5	2.5	2.5	2.5
80°	34.1	30.3	22.7	12.6	5.1	1.2	1.2	1.2	1.2
82.5°	20.2	17.7	12.6	6.3	2.5	1.2	1.2	1.2	1.2
85°	10.0	7.6	5.1	2.5	1.2	1.2	1.2	1.2	1.2
87.5°	2.5	1.2	1.2	1.2	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)