

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: P579807

Luminaire Tested: **HCC4W10D010MW-HM40525935-41WWBB**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P579807  
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: HCC4W10D010MW-HM40525935-41WWBB  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WALLWASH DISTRIBUTION, WHITE BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

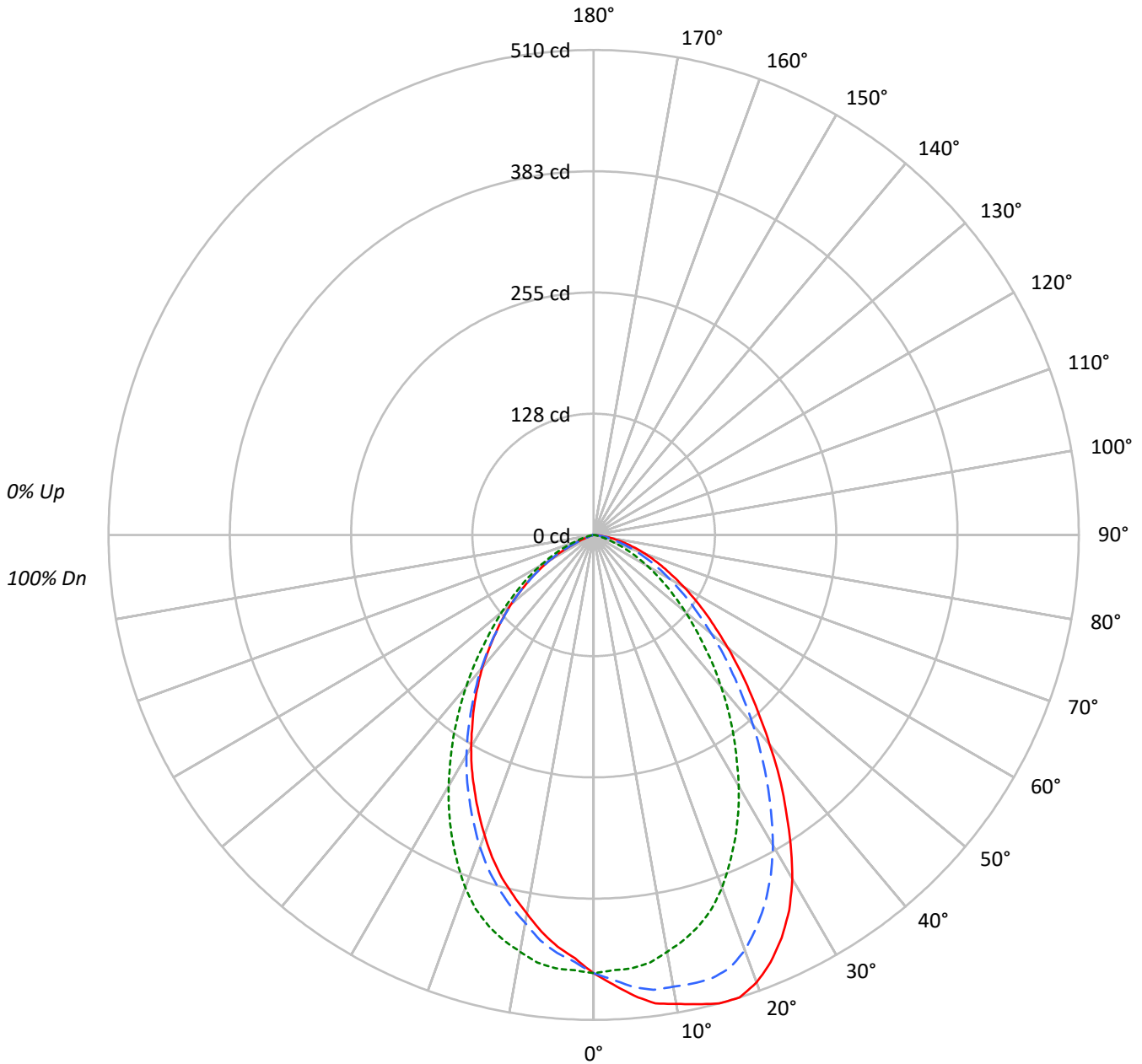
Lumens per Lamp: N/A  
Luminaire Lumens: 796.1 lumens  
Efficiency: N/A  
Efficacy: 80.4 lumens/watt  
Spacing Criteria (0/90/45): 1.11 / 1.04 / 1.12  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

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: P579807  
CATALOG NUMBER: HCC4W10D010MW-HM40525935-41WWBB

### Luminous Intensity Polar Plot



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



TEST NUMBER: P579807

CATALOG NUMBER: HCC4W10D010MW-HM40525935-41WWBB

**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°	56850	56850	56850
5°	60224	56659	53811
10°	62724	55748	50650
15°	65138	54412	47631
20°	65736	51809	44051
25°	63612	47906	40325
30°	59478	43426	36689
35°	53003	38593	32976
40°	46340	33572	29337
45°	40382	28468	25398
50°	35231	24159	21780
55°	30881	20021	17612
60°	27013	16158	12951
65°	23553	12054	7267
70°	20556	7790	2380
75°	16871	4051	667
80°	12644	1847	497
85°	7359	991	991



TEST NUMBER: P579807  
 CATALOG NUMBER: HCC4W10D010MW-HM40525935-41WWBB

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	43.5	5.5
10°-20°	121.7	15.3
20°-30°	168.3	21.1
30°-40°	169.2	21.3
40°-50°	136.6	17.2
50°-60°	92.4	11.6
60°-70°	47.0	5.9
70°-80°	15.1	1.9
80°-90°	2.3	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°	333.5	41.9
0°-40°	502.8	63.2
0°-60°	731.7	91.9
0°-90°	796.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	796.1	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	461	461	461	461	461	
5°	486	477	458	441	435	47
15°	510	482	426	385	373	144
25°	467	427	352	309	296	214
35°	352	318	256	224	219	220
45°	232	207	163	146	146	179
55°	144	124	93	81	82	129
65°	81	66	41	27	25	81
75°	35	25	8	2	1	38
85°	5	3	1	1	1	7
90°	0	0	0	0	0	



TEST NUMBER: P579807

CATALOG NUMBER: HCC4W10D010MW-HM40525935-41WWBB

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	460.9	460.9	460.9	460.9	460.9	460.9	460.9	460.9	460.9
2.5°	473.3	470.7	468.1	463.5	458.3	453.0	449.7	447.1	445.8
5°	486.4	483.2	477.3	467.4	457.6	448.4	441.2	436.7	434.6
7.5°	497.0	492.3	482.5	468.7	453.6	439.3	430.1	423.4	420.8
10°	500.8	495.6	482.5	464.2	445.1	427.4	414.3	407.7	404.4
12.5°	505.4	499.6	483.2	460.2	436.7	415.6	400.6	392.0	388.7
15°	510.1	502.2	482.5	454.3	426.1	401.8	385.4	376.9	373.0
17.5°	510.1	500.8	477.3	444.5	412.3	386.8	368.4	358.6	355.3
20°	500.8	490.4	464.8	428.7	394.7	367.1	349.4	339.6	335.6
22.5°	486.4	474.7	447.1	409.7	373.7	346.7	329.1	319.9	316.0
25°	467.4	455.7	426.7	388.1	352.0	325.1	308.7	300.2	296.3
27.5°	445.1	432.0	403.2	364.5	329.1	303.5	288.5	280.6	277.3
30°	417.6	405.1	376.9	338.9	304.9	281.2	267.4	260.3	257.6
32.5°	385.4	375.0	347.4	312.0	279.9	258.3	245.8	239.9	237.3
35°	352.0	342.2	318.0	285.2	256.3	236.0	224.2	220.3	219.0
37.5°	320.6	312.0	288.5	258.3	232.0	214.4	203.9	201.3	199.9
40°	287.8	281.9	260.3	232.7	208.5	192.8	184.2	182.2	182.2
42.5°	258.3	251.7	232.7	207.8	186.2	170.5	164.6	162.6	163.2
45°	231.5	224.9	207.1	184.2	163.2	150.1	145.6	145.6	145.6
47.5°	206.5	200.6	184.2	160.6	143.6	133.0	128.5	128.5	129.2
50°	183.6	179.6	161.3	141.0	125.9	116.1	112.8	112.1	113.5
52.5°	161.9	157.4	141.0	122.6	108.2	100.3	97.1	96.4	97.1
55°	143.6	138.4	123.9	106.2	93.1	85.2	81.3	80.7	81.9
57.5°	125.9	121.9	106.9	91.2	78.6	70.8	67.5	66.2	66.9
60°	109.5	105.5	91.7	76.7	65.5	57.7	53.1	51.8	52.5
62.5°	94.5	91.2	78.1	63.6	52.5	45.2	40.6	37.3	38.7
65°	80.7	77.4	65.5	51.1	41.3	33.5	26.9	24.2	24.9
67.5°	68.8	64.9	53.7	40.6	30.8	22.3	15.0	13.8	13.8
70°	57.0	53.1	43.2	31.5	21.6	11.8	6.6	6.6	6.6
72.5°	45.9	42.6	33.5	23.6	13.8	5.2	2.6	2.6	2.6
75°	35.4	32.8	24.9	16.4	8.5	2.6	1.9	1.4	1.4
77.5°	26.2	23.6	17.8	11.2	5.2	1.4	1.4	1.4	1.4
80°	17.8	15.7	11.8	6.6	2.6	0.7	0.7	0.7	0.7
82.5°	10.5	9.2	6.6	3.3	1.4	0.7	0.7	0.7	0.7
85°	5.2	4.0	2.6	1.4	0.7	0.7	0.7	0.7	0.7
87.5°	1.4	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)