

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: P579716

Luminaire Tested: **HCC4W10D010MW-HM40525830-41RWWH**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P579716  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-15)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/9/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC4W10D010MW-HM40525830-41RWWH  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WALLWASH DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

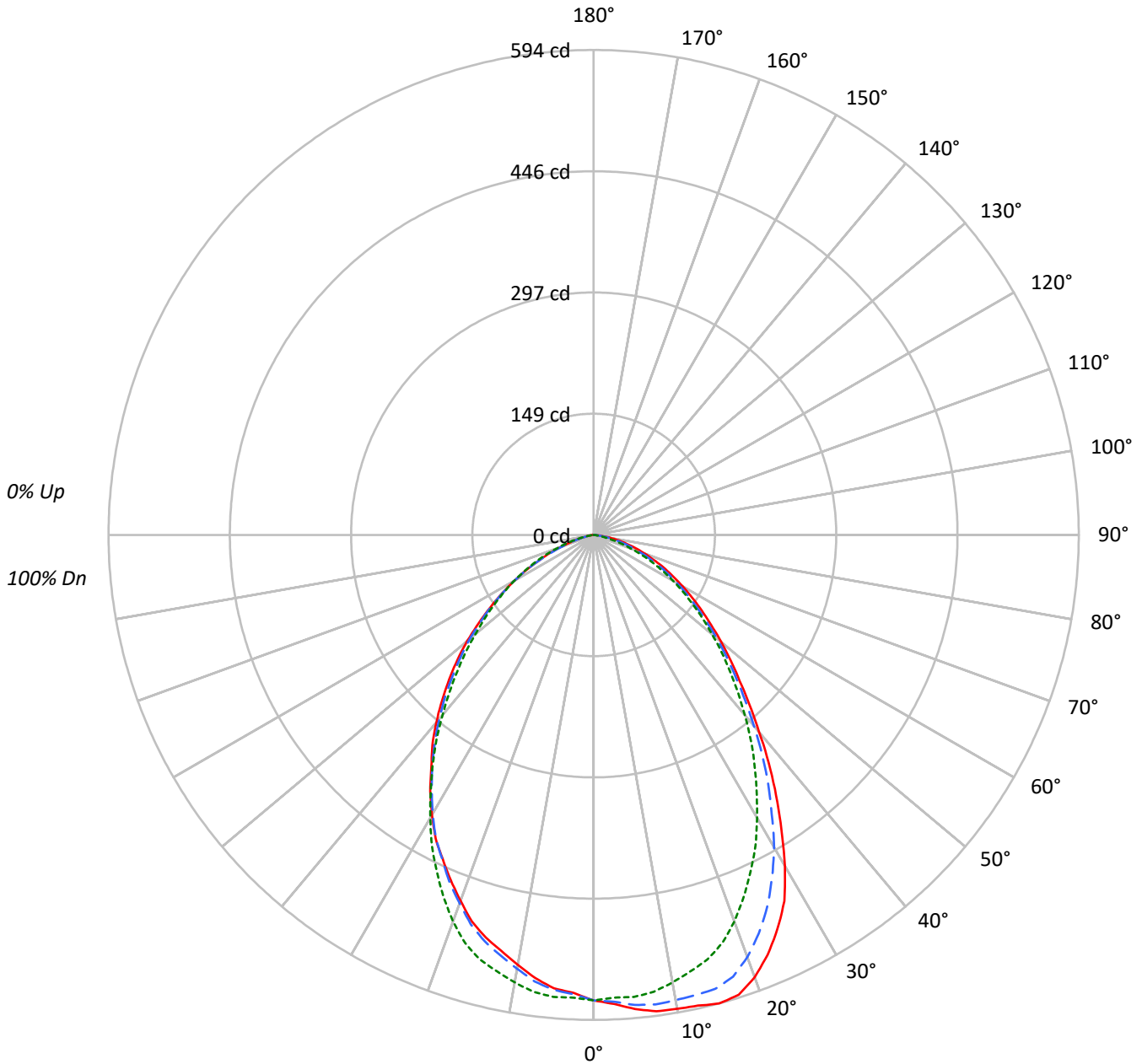
Lumens per Lamp: N/A  
Luminaire Lumens: 1086.6 lumens  
Efficiency: N/A  
Efficacy: 109.8 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.08 / 1.16  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

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: P579716  
CATALOG NUMBER: HCC4W10D010MW-HM40525830-41RWWH

### Luminous Intensity Polar Plot



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



TEST NUMBER: P579716

CATALOG NUMBER: HCC4W10D010MW-HM40525830-41RWWH

**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	107	104	100	108	105	102	99	101	98	96	97	95	93	93	92	90	88					88			
2	103	96	90	85	100	94	89	84	90	86	82	87	84	80	84	81	79	77					77			
3	95	86	79	73	92	84	78	73	81	76	71	79	74	70	76	72	69	67					67			
4	88	77	70	64	86	76	69	63	74	67	62	71	66	62	69	65	61	59					59			
5	81	70	62	56	79	69	61	56	67	60	55	65	59	55	63	58	54	52					52			
6	76	64	56	50	74	63	55	50	61	54	49	60	54	49	58	53	49	47					47			
7	71	58	51	45	69	58	50	45	56	49	45	55	49	44	54	48	44	42					42			
8	66	54	46	41	65	53	46	41	52	45	40	51	45	40	50	44	40	38					38			
9	62	50	42	37	61	49	42	37	48	41	37	47	41	37	46	41	37	35					35			
10	58	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	32					32			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	70319	70319	70319
5°	72173	70328	69015
10°	73809	69713	66958
15°	75865	68739	65202
20°	75672	66103	62559
25°	72485	61870	59570
30°	66684	56985	56387
35°	58650	51708	52145
40°	50736	46308	48224
45°	44115	41132	43609
50°	39127	36287	38743
55°	34730	31848	33203
60°	30935	27605	27605
65°	27493	22940	21481
70°	23766	17347	15291
75°	19921	11485	9436
80°	15130	5469	5043
85°	8067	1981	1981



TEST NUMBER: P579716  
 CATALOG NUMBER: HCC4W10D010MW-HM40525830-41RWWH

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	54.0	5.0
10°-20°	153.1	14.1
20°-30°	215.9	19.9
30°-40°	223.0	20.5
40°-50°	189.0	17.4
50°-60°	137.5	12.7
60°-70°	80.4	7.4
70°-80°	29.9	2.7
80°-90°	3.9	0.4
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°	422.9	38.9
0°-40°	645.9	59.4
0°-60°	972.5	89.5
0°-90°	1086.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1086.6	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	570	570	570	570	570	
5°	583	578	568	559	557	56
15°	594	576	538	516	511	167
25°	533	503	455	438	438	244
35°	390	372	343	344	346	243
45°	253	246	236	244	250	197
55°	162	154	148	153	154	145
65°	94	86	79	74	74	93
75°	42	35	24	19	20	45
85°	6	4	1	1	1	8
90°	0	0	0	0	0	



TEST NUMBER: P579716

CATALOG NUMBER: HCC4W10D010MW-HM40525830-41RWWH

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	570.1	570.1	570.1	570.1	570.1	570.1	570.1	570.1	570.1
2.5°	575.0	573.7	572.2	570.1	567.3	565.1	563.0	561.6	561.6
5°	582.9	580.7	577.9	573.0	568.0	563.8	559.4	557.4	557.4
7.5°	588.5	585.7	580.0	573.0	564.4	558.1	551.7	548.9	547.5
10°	589.3	586.4	578.6	568.0	556.6	546.7	539.6	535.4	534.6
12.5°	590.6	587.1	577.2	562.3	547.5	535.4	527.6	523.4	521.9
15°	594.1	589.3	575.7	556.6	538.3	524.0	515.5	512.0	510.6
17.5°	590.6	583.6	567.3	544.6	524.0	508.5	500.0	496.4	496.4
20°	576.5	569.3	550.2	525.5	503.6	488.7	480.1	478.1	476.6
22.5°	556.6	548.9	528.3	502.1	480.1	466.7	461.0	458.2	457.5
25°	532.6	524.7	502.8	475.9	454.6	443.4	438.4	438.4	437.7
27.5°	505.6	495.7	473.1	449.7	429.1	420.7	418.6	418.6	419.2
30°	468.2	461.0	441.9	419.2	400.1	394.4	394.4	395.9	395.9
32.5°	427.8	422.8	405.8	386.0	371.1	367.6	368.9	371.8	372.5
35°	389.5	383.8	372.5	354.8	343.4	342.1	344.1	346.3	346.3
37.5°	352.0	346.3	338.6	324.3	315.9	316.6	319.4	322.3	324.3
40°	315.1	310.9	305.2	293.9	287.6	290.4	293.9	296.8	299.5
42.5°	282.6	278.4	274.0	265.6	261.3	264.8	269.1	272.0	274.8
45°	252.9	250.0	245.7	238.6	235.8	239.3	244.3	247.2	250.0
47.5°	227.4	225.9	220.2	213.8	212.5	216.0	220.2	223.8	225.9
50°	203.9	201.9	196.9	190.5	189.1	194.7	197.6	199.7	201.9
52.5°	181.3	179.1	173.5	167.9	167.9	172.1	174.2	174.9	177.1
55°	161.5	159.3	153.6	149.4	148.1	151.6	152.9	152.9	154.4
57.5°	143.0	140.9	135.3	130.3	129.6	131.8	131.8	131.8	132.5
60°	125.4	123.2	117.6	113.3	111.9	112.5	111.9	111.2	111.9
62.5°	109.0	107.0	101.3	96.3	94.9	94.9	92.7	92.1	92.7
65°	94.2	90.7	86.4	81.5	78.6	76.5	73.6	73.6	73.6
67.5°	79.3	76.5	71.6	66.6	63.0	59.5	55.2	56.7	57.4
70°	65.9	63.7	58.0	53.1	48.1	43.9	40.4	41.8	42.4
72.5°	53.8	51.0	46.1	40.4	36.1	30.5	28.3	29.7	29.7
75°	41.8	38.9	34.7	29.0	24.1	19.1	19.1	19.8	19.8
77.5°	31.2	28.3	24.1	19.1	14.9	11.4	12.1	12.1	12.1
80°	21.3	19.1	15.6	11.4	7.7	6.4	6.4	6.4	7.1
82.5°	12.1	10.6	8.5	5.7	3.5	3.5	3.5	3.5	3.5
85°	5.7	4.2	3.5	2.2	1.4	1.4	1.4	1.4	1.4
87.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
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)