

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: P579734

Luminaire Tested: **HCC4W10D010MW-HM40525835-41RWWH**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P579734
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-HM40525835-41RWWH
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WALLWASH DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

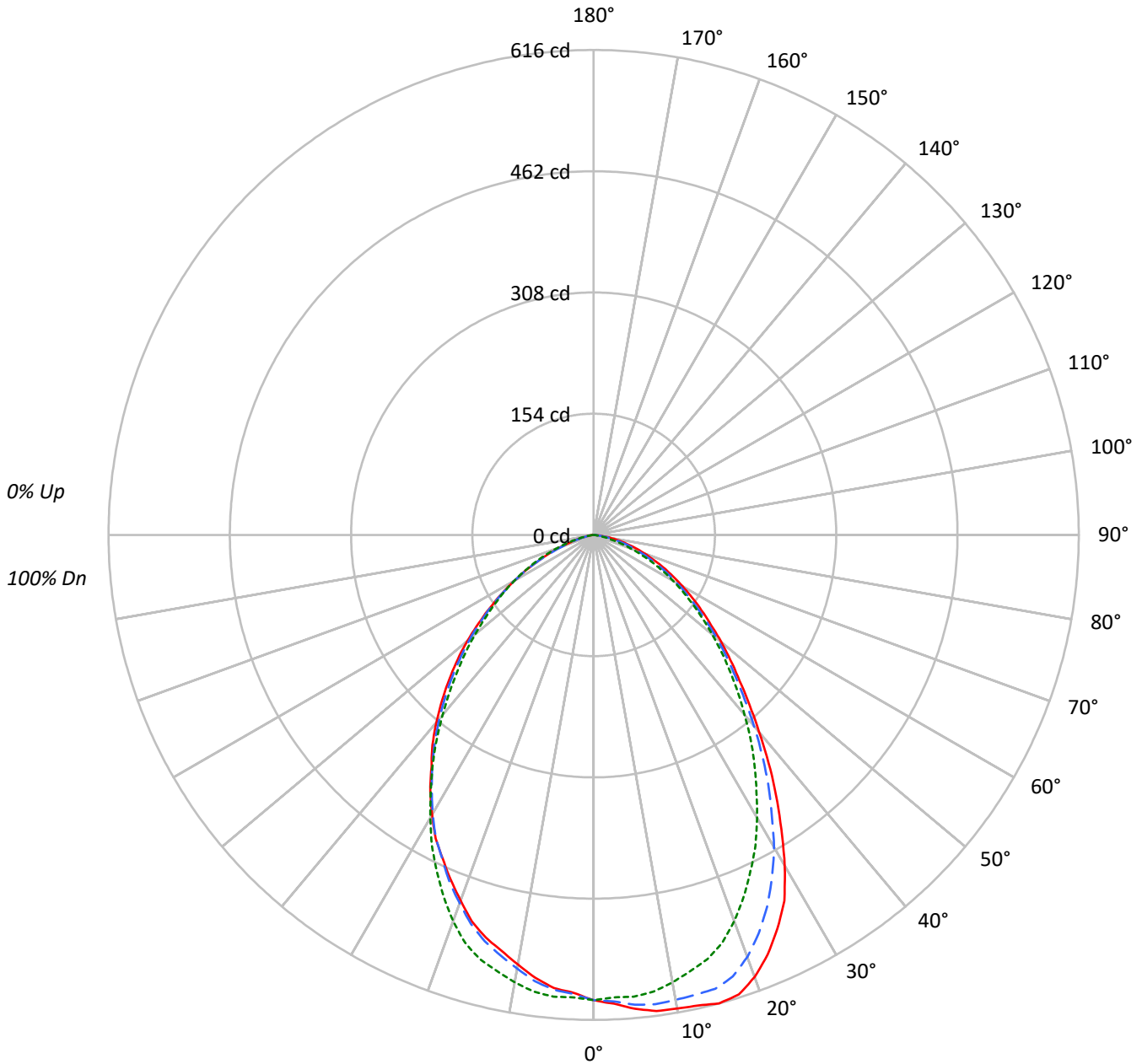
Lumens per Lamp: N/A
Luminaire Lumens: 1126.3 lumens
Efficiency: N/A
Efficacy: 113.8 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.08 / 1.16
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (A_{in}): 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: P579734
CATALOG NUMBER: HCC4W10D010MW-HM40525835-41RWWH

Luminous Intensity Polar Plot



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



TEST NUMBER: P579734

CATALOG NUMBER: HCC4W10D010MW-HM40525835-41RWWH

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°	72897	72897	72897
5°	74810	72891	71541
10°	76502	72268	69413
15°	78648	71229	67590
20°	78442	68505	64843
25°	75125	64129	61734
30°	69106	59079	58452
35°	60803	53621	54042
40°	52604	47983	50012
45°	45720	42632	45197
50°	40566	37611	40144
55°	35999	32988	34407
60°	32070	28616	28616
65°	28486	23787	22298
70°	24632	18032	15868
75°	20683	11867	9817
80°	15698	5754	5256
85°	8350	2123	2123

Classified

Scaled Data Report

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P579734

CATALOG NUMBER: HCC4W10D010MW-HM40525835-41RWWH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.0	5.0
10°-20°	158.7	14.1
20°-30°	223.7	19.9
30°-40°	231.1	20.5
40°-50°	195.9	17.4
50°-60°	142.6	12.7
60°-70°	83.3	7.4
70°-80°	31.0	2.7
80°-90°	4.0	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°	438.4	38.9
0°-40°	669.5	59.4
0°-60°	1008.0	89.5
0°-90°	1126.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1126.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	591	591	591	591	591	
5°	604	599	589	580	578	58
15°	616	597	558	534	529	173
25°	552	521	471	454	454	252
35°	404	386	356	357	359	252
45°	262	255	244	253	259	204
55°	167	159	153	158	160	151
65°	98	90	82	76	76	97
75°	43	36	25	20	21	47
85°	6	4	2	2	2	8
90°	0	0	0	0	0	



TEST NUMBER: P579734

CATALOG NUMBER: HCC4W10D010MW-HM40525835-41RWWH

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	591.0	591.0	591.0	591.0	591.0	591.0	591.0	591.0	591.0
2.5°	596.1	594.6	593.1	591.0	588.0	585.8	583.6	582.1	582.1
5°	604.2	601.9	599.0	593.9	588.7	584.4	579.9	577.8	577.8
7.5°	610.0	607.1	601.2	593.9	585.0	578.4	571.8	568.9	567.4
10°	610.8	607.8	599.7	588.7	577.0	566.7	559.3	555.0	554.2
12.5°	612.2	608.6	598.2	582.9	567.4	555.0	546.9	542.5	541.0
15°	615.9	610.8	596.8	577.0	557.8	543.2	534.4	530.8	529.3
17.5°	612.2	604.8	588.0	564.4	543.2	527.1	518.2	514.6	514.6
20°	597.6	590.2	570.4	544.6	521.9	506.5	497.6	495.5	494.0
22.5°	577.0	568.9	547.6	520.4	497.6	483.8	477.8	475.0	474.2
25°	552.0	544.0	521.2	493.3	471.2	459.5	454.4	454.4	453.6
27.5°	524.2	513.8	490.4	466.1	444.8	436.1	433.8	433.8	434.6
30°	485.2	477.8	458.0	434.6	414.8	408.9	408.9	410.4	410.4
32.5°	443.4	438.2	420.6	400.1	384.6	381.0	382.5	385.4	386.1
35°	403.8	397.8	386.1	367.8	356.1	354.6	356.8	358.9	358.9
37.5°	364.8	358.9	350.8	336.2	327.4	328.1	331.0	334.0	336.2
40°	326.7	322.3	316.4	304.6	298.0	301.0	304.6	307.6	310.6
42.5°	292.9	288.5	284.0	275.3	270.8	274.6	278.9	281.9	284.8
45°	262.1	259.1	254.7	247.4	244.4	248.1	253.2	256.2	259.1
47.5°	235.7	234.2	228.3	221.7	220.2	223.8	228.3	231.9	234.2
50°	211.4	209.2	204.0	197.4	196.0	201.9	204.8	207.0	209.2
52.5°	187.9	185.7	179.8	174.0	174.0	178.3	180.6	181.3	183.6
55°	167.4	165.1	159.3	154.9	153.4	157.0	158.5	158.5	160.0
57.5°	148.3	146.1	140.2	135.1	134.3	136.6	136.6	136.6	137.2
60°	130.0	127.7	121.9	117.4	116.0	116.8	116.0	115.3	116.0
62.5°	113.0	110.8	104.9	99.8	98.3	98.3	96.2	95.5	96.2
65°	97.6	94.0	89.6	84.4	81.5	79.3	76.4	76.4	76.4
67.5°	82.2	79.3	74.2	69.0	65.3	61.7	57.2	58.7	59.4
70°	68.3	66.1	60.2	55.1	50.0	45.5	41.9	43.4	44.0
72.5°	55.8	52.8	47.7	41.9	37.4	31.5	29.4	30.8	30.8
75°	43.4	40.4	36.0	30.0	24.9	19.8	19.8	20.6	20.6
77.5°	32.3	29.4	24.9	19.8	15.4	11.7	12.5	12.5	12.5
80°	22.1	19.8	16.2	11.7	8.1	6.6	6.6	6.6	7.4
82.5°	12.5	11.0	8.8	5.9	3.6	3.6	3.6	3.6	3.6
85°	5.9	4.4	3.6	2.2	1.5	1.5	1.5	1.5	1.5
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)