

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: P592652

Luminaire Tested: **HCC4W15D010MW-HM40525950-41RWWH**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P592652
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: HCC4W15D010MW-HM40525950-41RWWH
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WALLWASH DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

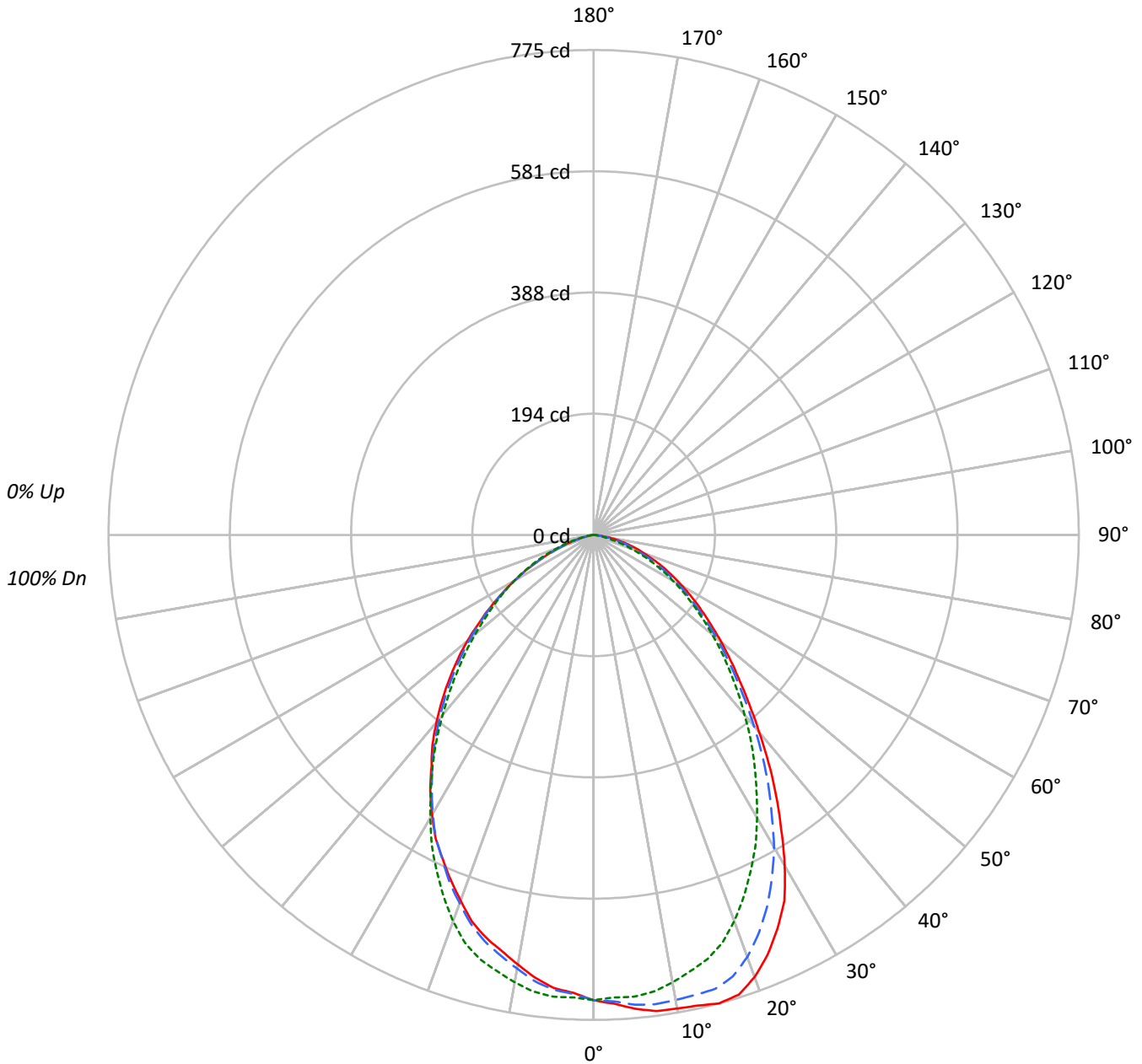
Lumens per Lamp: N/A
Luminaire Lumens: 1417.1 lumens
Efficiency: N/A
Efficacy: 101.2 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.08 / 1.16
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 14
Input Voltage (V): NR
Input Current (Ain): 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: P592652
CATALOG NUMBER: HCC4W15D010MW-HM40525950-41RWWH

Luminous Intensity Polar Plot



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



TEST NUMBER: P592652

CATALOG NUMBER: HCC4W15D010MW-HM40525950-41RWWH

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	0					
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100								
1	111	107	104	100	108	105	102	99	101	98	96	97	95	93	93	92	90	88								
2	103	96	90	85	100	94	89	84	90	86	82	87	84	80	84	81	79	77								
3	95	86	79	73	92	84	78	73	81	76	71	79	74	70	76	72	69	67								
4	88	77	70	64	86	76	69	63	74	67	62	71	66	62	69	65	61	59								
5	81	70	62	56	79	69	61	56	67	60	55	65	59	55	63	58	54	52								
6	76	64	56	50	74	63	55	50	61	54	49	60	54	49	58	53	49	47								
7	71	58	51	45	69	58	50	45	56	49	45	55	49	44	54	48	44	42								
8	66	54	46	41	65	53	46	41	52	45	40	51	45	40	50	44	40	38								
9	62	50	42	37	61	49	42	37	48	41	37	47	41	37	46	41	37	35								
10	58	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	32								

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	91707	91707	91707
5°	94113	91723	90002
10°	96241	90930	87336
15°	98952	89643	85033
20°	98683	86200	81592
25°	94533	80692	77684
30°	86952	74333	73535
35°	76493	67459	68001
40°	66178	60381	62909
45°	57512	53657	56866
50°	51024	47321	50506
55°	45289	41525	43310
60°	40334	35992	35992
65°	35840	29945	28048
70°	30943	22648	19979
75°	25973	14964	12296
80°	19676	7174	6535
85°	10473	2547	2547



TEST NUMBER: P592652
 CATALOG NUMBER: HCC4W15D010MW-HM40525950-41RWWH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.4	5.0
10°-20°	199.6	14.1
20°-30°	281.5	19.9
30°-40°	290.8	20.5
40°-50°	246.5	17.4
50°-60°	179.4	12.7
60°-70°	104.8	7.4
70°-80°	38.9	2.7
80°-90°	5.1	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°	551.5	38.9
0°-40°	842.4	59.4
0°-60°	1268.3	89.5
0°-90°	1417.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1417.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	744	744	744	744	744	
5°	760	754	741	730	727	73
15°	775	751	702	672	666	218
25°	695	656	593	572	571	318
35°	508	486	448	449	452	317
45°	330	320	308	319	326	257
55°	211	200	193	200	201	189
65°	123	113	103	96	96	122
75°	54	45	31	25	26	59
85°	7	5	2	2	2	10
90°	0	0	0	0	0	



TEST NUMBER: P592652

CATALOG NUMBER: HCC4W15D010MW-HM40525950-41RWWH

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	743.5	743.5	743.5	743.5	743.5	743.5	743.5	743.5	743.5
2.5°	750.0	748.1	746.2	743.5	739.8	737.0	734.3	732.5	732.5
5°	760.1	757.4	753.6	747.2	740.8	735.2	729.6	726.9	726.9
7.5°	767.5	763.8	756.4	747.2	736.1	727.8	719.5	715.7	713.9
10°	768.4	764.7	754.6	740.8	726.0	713.0	703.8	698.2	697.3
12.5°	770.3	765.7	752.7	733.4	713.9	698.2	688.1	682.5	680.7
15°	774.9	768.4	750.9	726.0	702.0	683.5	672.4	667.8	665.9
17.5°	770.3	761.0	739.8	710.3	683.5	663.1	652.1	647.4	647.4
20°	751.8	742.6	717.7	685.3	656.7	637.3	626.1	623.4	621.6
22.5°	726.0	715.7	689.0	654.8	626.1	608.6	601.2	597.6	596.7
25°	694.6	684.4	655.7	620.7	592.9	578.2	571.7	571.7	570.8
27.5°	659.5	646.5	616.9	586.5	559.7	548.6	545.9	545.9	546.8
30°	610.5	601.2	576.3	546.8	521.9	514.5	514.5	516.3	516.3
32.5°	557.8	551.4	529.3	503.3	484.0	479.4	481.2	484.9	485.8
35°	508.0	500.6	485.8	462.8	448.0	446.0	448.9	451.6	451.6
37.5°	459.0	451.6	441.5	423.0	411.9	412.8	416.6	420.2	423.0
40°	411.0	405.5	398.1	383.3	375.0	378.6	383.3	387.0	390.7
42.5°	368.5	362.9	357.5	346.3	340.8	345.4	351.0	354.6	358.4
45°	329.7	326.0	320.5	311.2	307.6	312.2	318.6	322.3	326.0
47.5°	296.5	294.6	287.2	278.9	277.1	281.7	287.2	291.9	294.6
50°	265.9	263.2	256.7	248.4	246.6	254.0	257.6	260.5	263.2
52.5°	236.5	233.7	226.3	218.9	218.9	224.4	227.2	228.1	230.9
55°	210.6	207.8	200.5	194.9	193.1	197.6	199.5	199.5	201.4
57.5°	186.6	183.9	176.5	170.0	169.1	171.8	171.8	171.8	172.7
60°	163.5	160.7	153.3	147.8	145.9	146.9	145.9	145.0	145.9
62.5°	142.2	139.5	132.1	125.6	123.7	123.7	121.0	120.1	121.0
65°	122.8	118.2	112.7	106.2	102.6	99.7	96.1	96.1	96.1
67.5°	103.5	99.7	93.2	86.9	82.2	77.5	72.1	73.9	74.8
70°	85.8	83.1	75.7	69.2	62.8	57.3	52.6	54.5	55.4
72.5°	70.2	66.5	60.0	52.6	47.1	39.7	37.0	38.8	38.8
75°	54.5	50.8	45.3	37.9	31.4	24.9	24.9	25.8	25.8
77.5°	40.6	37.0	31.4	24.9	19.4	14.8	15.7	15.7	15.7
80°	27.7	24.9	20.4	14.8	10.1	8.3	8.3	8.3	9.2
82.5°	15.7	13.9	11.0	7.4	4.7	4.7	4.7	4.7	4.7
85°	7.4	5.6	4.7	2.7	1.8	1.8	1.8	1.8	1.8
87.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
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)