

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: P592651

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

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P592651
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-14)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC4W15D010MW-HM40525950-41RWWC
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WALLWASH DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

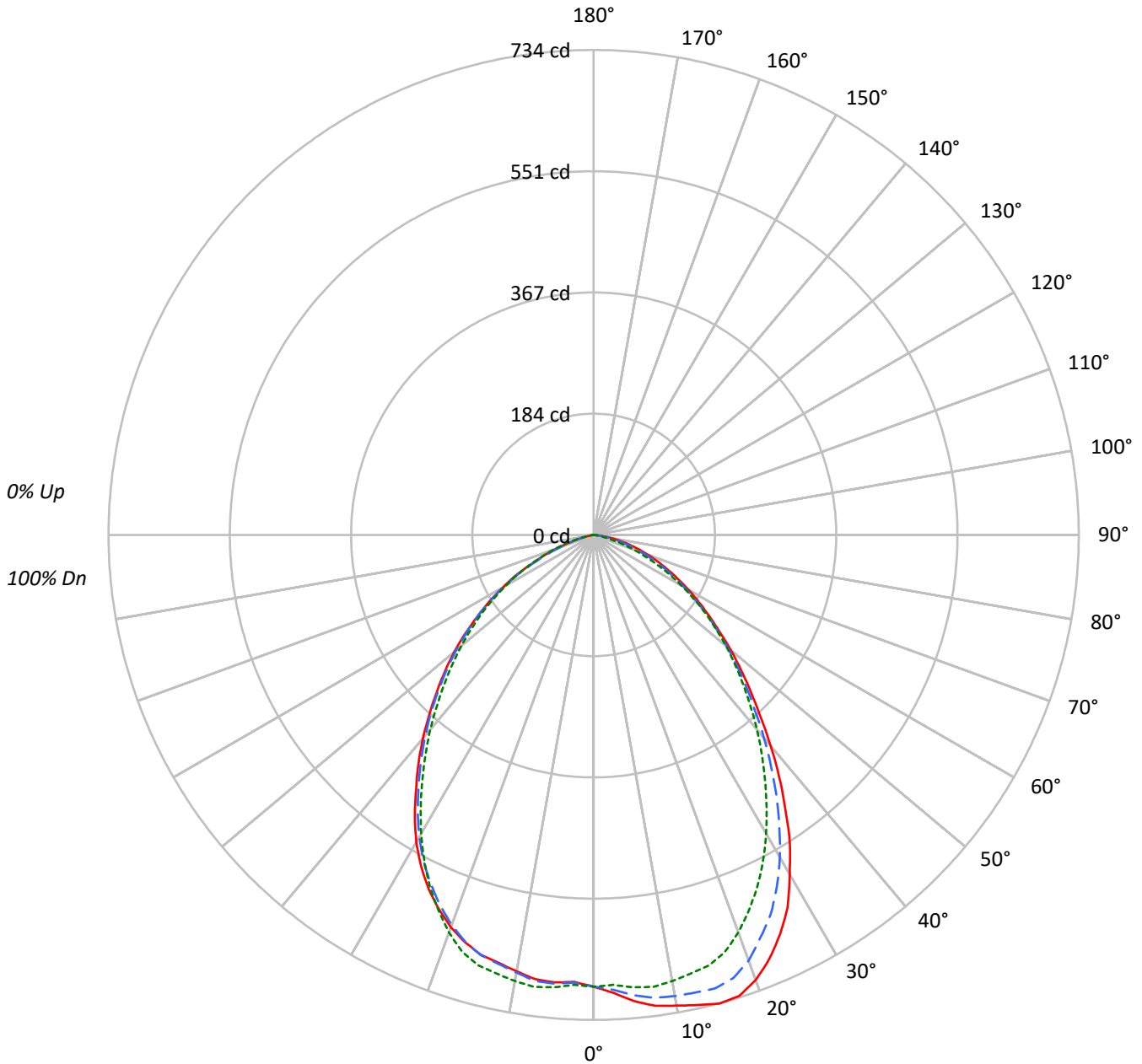
Lumens per Lamp: N/A
Luminaire Lumens: 1424.5 lumens
Efficiency: N/A
Efficacy: 101.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.15 / 1.21
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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: P592651
CATALOG NUMBER: HCC4W15D010MW-HM40525950-41RWWC

Luminous Intensity Polar Plot





TEST NUMBER: P592651

CATALOG NUMBER: HCC4W15D010MW-HM40525950-41RWWC

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				100				
1	111	107	103	100	108	105	102	99	101	98	96	97	95	93	93	92	90	88				88				
2	102	95	90	85	100	94	88	84	90	86	82	87	83	80	84	81	78	76				76				
3	95	85	78	73	92	84	77	72	81	75	71	78	74	70	76	72	69	67				67				
4	87	77	69	63	85	76	68	63	73	67	62	71	66	61	69	64	60	58				58				
5	81	70	62	56	79	68	61	55	66	60	55	65	59	54	63	58	54	52				52				
6	75	63	55	49	74	62	55	49	61	54	49	59	53	48	58	52	48	46				46				
7	70	58	50	44	69	57	49	44	56	49	44	54	48	44	53	47	43	41				41				
8	66	53	45	40	64	53	45	40	51	44	40	50	44	39	49	43	39	37				37				
9	62	49	42	36	60	49	41	36	47	41	36	46	40	36	45	40	36	34				34				
10	58	46	38	33	57	45	38	33	44	38	33	43	37	33	42	37	33	31				31				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	84319	84319	84319
5°	87737	85099	84183
10°	90605	85858	84004
15°	93781	86119	83999
20°	94101	84021	82931
25°	90777	79834	80460
30°	84474	74333	76441
35°	76087	68016	70515
40°	67079	61879	64696
45°	58646	55750	58489
50°	51945	50160	52828
55°	45697	44300	46084
60°	40778	37842	38953
65°	35870	30733	30208
70°	31339	22648	20665
75°	25973	13678	11009
80°	19676	5256	3339
85°	9199	1274	1274



TEST NUMBER: P592651
 CATALOG NUMBER: HCC4W15D010MW-HM40525950-41RWWC

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.9	4.6
10°-20°	192.4	13.5
20°-30°	278.7	19.6
30°-40°	294.0	20.6
40°-50°	254.4	17.9
50°-60°	188.5	13.2
60°-70°	108.6	7.6
70°-80°	38.0	2.7
80°-90°	4.0	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°	537.0	37.7
0°-40°	831.0	58.3
0°-60°	1273.9	89.4
0°-90°	1424.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1424.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	684	684	684	684	684	
5°	709	699	687	682	680	68
15°	734	710	674	659	658	207
25°	667	634	587	583	591	305
35°	505	482	452	462	468	316
45°	336	327	320	332	335	261
55°	212	208	206	213	214	192
65°	123	116	105	100	104	123
75°	54	46	29	23	23	59
85°	6	4	1	1	1	10
90°	0	0	0	0	0	



TEST NUMBER: P592651

CATALOG NUMBER: HCC4W15D010MW-HM40525950-41RWWC

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	683.6	683.6	683.6	683.6	683.6	683.6	683.6	683.6	683.6
2.5°	693.8	691.9	689.1	685.5	681.7	679.0	678.1	677.1	677.1
5°	708.6	704.8	699.3	691.9	687.3	684.5	681.7	679.9	679.9
7.5°	718.7	714.9	706.6	696.5	690.0	684.5	680.8	678.1	678.1
10°	723.4	718.7	708.6	695.6	685.5	678.1	672.5	670.7	670.7
12.5°	728.8	723.4	709.5	692.9	679.9	670.7	665.1	663.3	663.3
15°	734.4	727.9	710.4	691.0	674.4	663.3	658.7	657.8	657.8
17.5°	731.7	723.4	703.0	679.9	661.4	650.4	645.7	645.7	646.6
20°	716.9	708.6	685.5	659.6	640.1	631.8	628.2	630.0	631.8
22.5°	694.7	684.5	659.6	634.7	614.3	606.9	606.9	609.7	612.5
25°	667.0	657.8	633.8	606.0	586.6	581.0	582.9	587.5	591.2
27.5°	635.6	625.4	600.4	574.6	555.2	552.5	557.0	563.5	565.3
30°	593.1	584.8	563.5	538.6	521.9	521.0	527.5	532.1	536.7
32.5°	552.5	543.1	522.9	498.8	486.9	487.8	495.2	500.7	503.5
35°	505.3	497.0	482.2	462.8	451.7	453.5	461.8	467.4	468.3
37.5°	460.9	455.4	440.6	425.8	417.5	421.3	428.6	435.1	435.1
40°	416.6	412.0	400.9	388.9	384.3	388.9	396.2	401.8	401.8
42.5°	374.1	371.3	362.1	353.8	351.0	357.5	364.0	368.6	367.7
45°	336.2	333.5	327.0	320.5	319.6	326.1	331.7	334.4	335.3
47.5°	302.1	300.3	294.7	290.0	290.0	296.5	301.2	303.9	304.8
50°	270.7	268.8	264.2	260.5	261.4	267.9	271.6	274.4	275.3
52.5°	239.2	238.3	234.7	230.0	232.7	237.4	242.1	243.9	244.8
55°	212.5	212.5	207.8	204.2	206.0	210.6	213.4	214.3	214.3
57.5°	188.4	187.5	182.0	178.3	179.2	183.9	185.7	186.6	186.6
60°	165.3	164.4	158.8	153.4	153.4	156.1	157.0	157.9	157.9
62.5°	143.1	142.2	135.8	131.2	129.3	128.4	128.4	130.3	133.9
65°	122.9	121.9	115.5	108.1	105.3	102.6	99.7	101.6	103.5
67.5°	104.4	102.6	96.1	89.6	83.1	78.6	73.9	76.6	80.4
70°	86.9	84.9	77.5	70.2	62.8	55.4	51.7	55.4	57.3
72.5°	70.2	68.3	60.9	53.6	44.3	37.0	36.0	37.0	37.9
75°	54.5	53.6	46.2	37.9	28.7	23.1	23.1	23.1	23.1
77.5°	40.6	38.8	31.4	24.0	16.6	13.0	12.1	12.1	12.1
80°	27.7	25.8	19.4	13.9	7.4	5.6	5.6	4.7	4.7
82.5°	15.7	14.8	10.1	5.6	2.7	1.8	1.8	1.8	1.8
85°	6.5	5.6	3.6	1.8	0.9	0.9	0.9	0.9	0.9
87.5°	0.9	0.9	0.9	0.0	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)