

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: P579914

Luminaire Tested: **HCC4S15D010BZ-HM40525927-41RWWH**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P579914
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: HCC4S15D010BZ-HM40525927-41RWWH
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WALLWASH DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

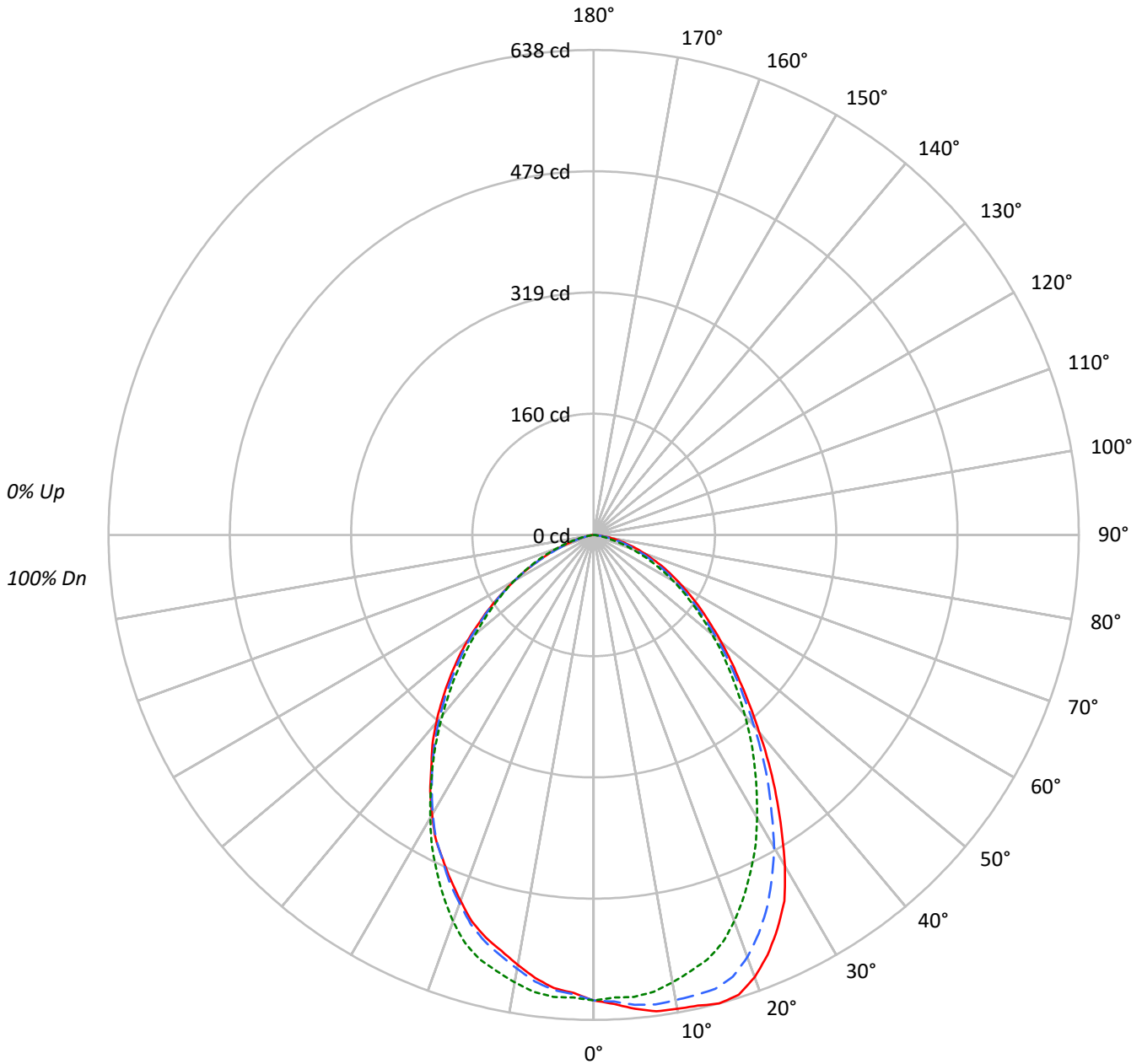
Lumens per Lamp: N/A
Luminaire Lumens: 1167.0 lumens
Efficiency: N/A
Efficacy: 83.4 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.08 / 1.16
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 14
Input Voltage (V): NR
Input Current (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: P579914
CATALOG NUMBER: HCC4S15D010BZ-HM40525927-41RWWH

Luminous Intensity Polar Plot



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



TEST NUMBER: P579914

CATALOG NUMBER: HCC4S15D010BZ-HM40525927-41RWWH

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	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°	75525	75525	75525
5°	77497	75528	74104
10°	79270	74874	71918
15°	81483	73822	70029
20°	81264	70986	67193
25°	77834	66456	63966
30°	71612	61201	60546
35°	62986	55533	56000
40°	54504	49722	51815
45°	47360	44185	46819
50°	42043	38973	41583
55°	37289	34192	35655
60°	33205	29652	29652
65°	29536	24662	23086
70°	25497	18645	16445
75°	21398	12296	10151
80°	16266	5967	5398
85°	8633	2123	2123



TEST NUMBER: P579914
 CATALOG NUMBER: HCC4S15D010BZ-HM40525927-41RWWH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.0	5.0
10°-20°	164.4	14.1
20°-30°	231.8	19.9
30°-40°	239.5	20.5
40°-50°	203.0	17.4
50°-60°	147.7	12.7
60°-70°	86.3	7.4
70°-80°	32.1	2.7
80°-90°	4.2	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°	454.2	38.9
0°-40°	693.7	59.4
0°-60°	1044.4	89.5
0°-90°	1167.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1167.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	612	612	612	612	612	
5°	626	621	610	601	598	60
15°	638	618	578	554	548	179
25°	572	540	488	471	470	262
35°	418	400	369	370	372	261
45°	272	264	253	262	268	211
55°	173	165	159	164	166	156
65°	101	93	84	79	79	100
75°	45	37	26	21	21	48
85°	6	4	2	2	2	9
90°	0	0	0	0	0	



TEST NUMBER: P579914

CATALOG NUMBER: HCC4S15D010BZ-HM40525927-41RWWH

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	612.3	612.3	612.3	612.3	612.3	612.3	612.3	612.3	612.3
2.5°	617.6	616.0	614.5	612.3	609.2	606.9	604.7	603.2	603.2
5°	625.9	623.6	620.6	615.3	610.0	605.5	600.9	598.5	598.5
7.5°	632.1	629.0	623.0	615.3	606.1	599.3	592.5	589.4	587.9
10°	632.9	629.8	621.4	610.0	597.8	587.1	579.5	575.0	574.2
12.5°	634.3	630.5	619.9	603.9	587.9	575.0	566.7	562.0	560.5
15°	638.1	632.9	618.3	597.8	578.1	562.8	553.7	549.9	548.4
17.5°	634.3	626.7	609.2	584.9	562.8	546.1	537.0	533.1	533.1
20°	619.1	611.5	591.0	564.3	540.8	524.8	515.6	513.4	511.9
22.5°	597.8	589.4	567.4	539.3	515.6	501.2	495.2	492.1	491.3
25°	571.9	563.6	540.0	511.1	488.3	476.2	470.8	470.8	470.0
27.5°	543.0	532.5	508.0	483.0	460.9	451.7	449.5	449.5	450.3
30°	502.8	495.2	474.6	450.3	429.7	423.6	423.6	425.1	425.1
32.5°	459.3	454.1	435.8	414.6	398.5	394.8	396.2	399.3	400.1
35°	418.3	412.3	400.1	381.0	368.8	367.4	369.6	371.9	371.9
37.5°	378.1	371.9	363.5	348.4	339.2	340.0	343.0	346.1	348.4
40°	338.5	333.9	327.8	315.6	308.8	311.9	315.6	318.7	321.8
42.5°	303.5	298.9	294.4	285.2	280.6	284.5	289.0	292.1	295.1
45°	271.5	268.4	263.9	256.3	253.3	257.1	262.4	265.5	268.4
47.5°	244.1	242.6	236.5	229.7	228.2	231.9	236.5	240.4	242.6
50°	219.1	216.7	211.5	204.5	203.1	209.2	212.2	214.4	216.7
52.5°	194.7	192.4	186.4	180.2	180.2	184.9	187.2	187.8	190.1
55°	173.4	171.1	165.1	160.4	159.0	162.8	164.3	164.3	165.8
57.5°	153.6	151.3	145.3	140.0	139.2	141.4	141.4	141.4	142.2
60°	134.6	132.3	126.2	121.7	120.2	121.0	120.2	119.4	120.2
62.5°	117.1	114.8	108.8	103.5	101.9	101.9	99.6	98.9	99.6
65°	101.2	97.3	92.8	87.4	84.5	82.1	79.1	79.1	79.1
67.5°	85.2	82.1	76.9	71.5	67.7	63.9	59.4	60.8	61.6
70°	70.7	68.4	62.4	57.1	51.7	47.2	43.3	44.9	45.6
72.5°	57.8	54.8	49.5	43.3	38.8	32.7	30.5	31.9	31.9
75°	44.9	41.8	37.3	31.2	25.8	20.6	20.6	21.3	21.3
77.5°	33.4	30.5	25.8	20.6	15.9	12.2	13.0	13.0	13.0
80°	22.9	20.6	16.7	12.2	8.4	6.8	6.8	6.8	7.6
82.5°	13.0	11.4	9.1	6.1	3.8	3.8	3.8	3.8	3.8
85°	6.1	4.5	3.8	2.3	1.5	1.5	1.5	1.5	1.5
87.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
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)