

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: P579931

Luminaire Tested: **HCC4S15D010MW-HM40525930-41RWWC**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P579931
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: HCC4S15D010MW-HM40525930-41RWWC
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WALLWASH DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

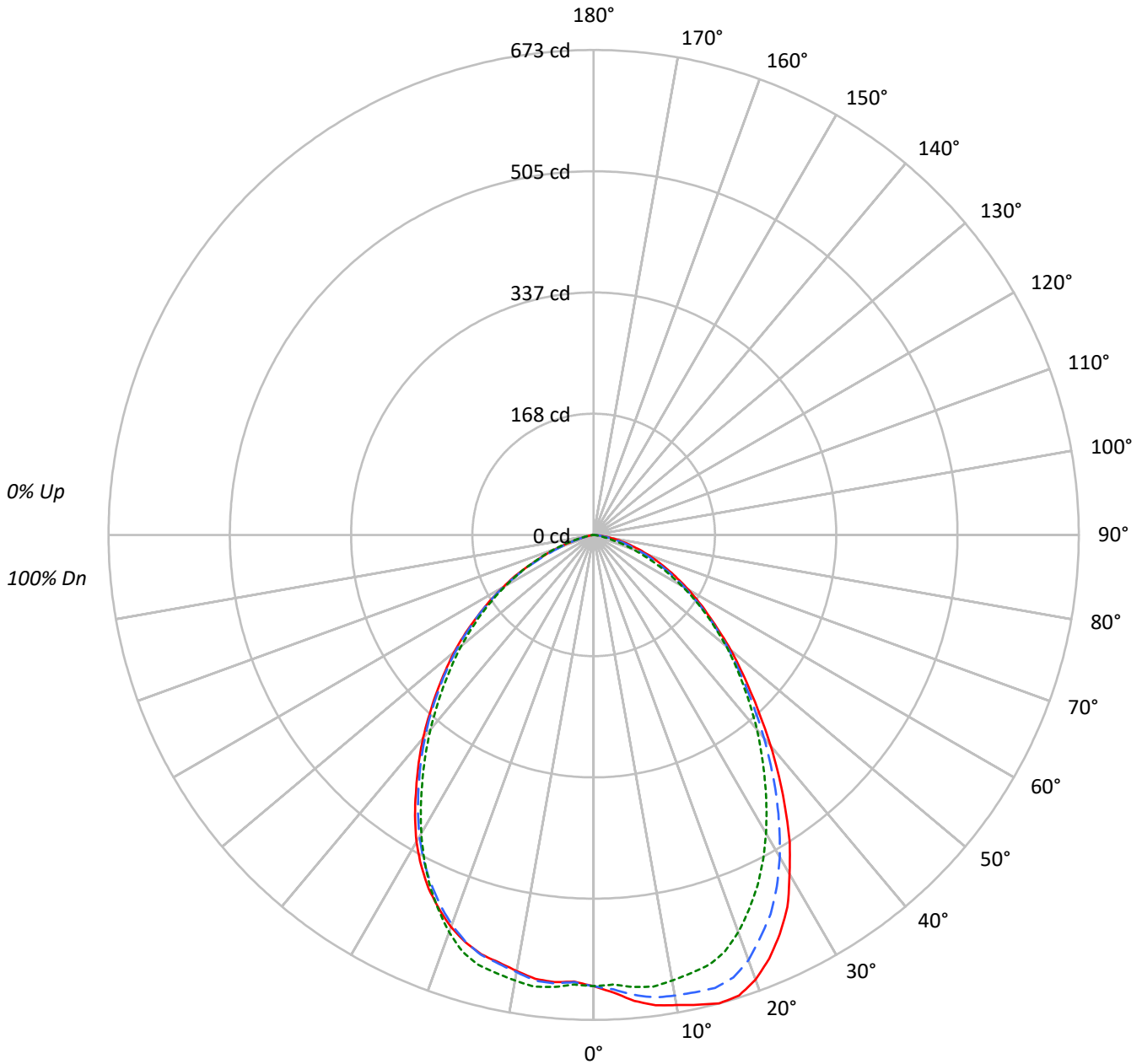
Lumens per Lamp: N/A
Luminaire Lumens: 1305.1 lumens
Efficiency: N/A
Efficacy: 93.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.15 / 1.21
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 14
Input Voltage (V): NR
Input Current (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: P579931
CATALOG NUMBER: HCC4S15D010MW-HM40525930-41RWWC

Luminous Intensity Polar Plot





TEST NUMBER: P579931

CATALOG NUMBER: HCC4S15D010MW-HM40525930-41RWWC

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°	77251	77251	77251
5°	80369	77967	77138
10°	82990	78656	76953
15°	85927	78891	76950
20°	86200	76998	76001
25°	83155	73152	73724
30°	77395	68109	70046
35°	69717	62324	64613
40°	61460	56694	59286
45°	53744	51093	53587
50°	47589	45977	48395
55°	41870	40579	42235
60°	37349	34660	35696
65°	32864	28165	27668
70°	28707	20737	18934
75°	23781	12534	10056
80°	18042	4830	2983
85°	8350	1132	1132



TEST NUMBER: P579931
 CATALOG NUMBER: HCC4S15D010MW-HM40525930-41RWWC

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.4	4.6
10°-20°	176.3	13.5
20°-30°	255.3	19.6
30°-40°	269.4	20.6
40°-50°	233.1	17.9
50°-60°	172.7	13.2
60°-70°	99.6	7.6
70°-80°	34.8	2.7
80°-90°	3.6	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°	492.0	37.7
0°-40°	761.4	58.3
0°-60°	1167.2	89.4
0°-90°	1305.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1305.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	626	626	626	626	626	
5°	649	641	630	625	623	62
15°	673	651	618	603	603	189
25°	611	581	538	534	542	280
35°	463	442	414	423	429	289
45°	308	300	293	304	307	239
55°	195	190	189	196	196	176
65°	113	106	96	91	95	112
75°	50	42	26	21	21	54
85°	6	3	1	1	1	9
90°	0	0	0	0	0	



TEST NUMBER: P579931

CATALOG NUMBER: HCC4S15D010MW-HM40525930-41RWWC

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	626.3	626.3	626.3	626.3	626.3	626.3	626.3	626.3	626.3
2.5°	635.6	633.9	631.4	628.0	624.6	622.1	621.3	620.3	620.3
5°	649.1	645.8	640.7	633.9	629.7	627.2	624.6	623.0	623.0
7.5°	658.4	655.0	647.4	638.2	632.2	627.2	623.8	621.3	621.3
10°	662.6	658.4	649.1	637.3	628.0	621.3	616.1	614.4	614.4
12.5°	667.8	662.6	650.0	634.8	623.0	614.4	609.4	607.7	607.7
15°	672.9	667.0	650.8	633.1	617.8	607.7	603.4	602.6	602.6
17.5°	670.3	662.6	644.1	623.0	606.0	595.8	591.6	591.6	592.5
20°	656.7	649.1	628.0	604.3	586.6	579.0	575.5	577.3	579.0
22.5°	636.5	627.2	604.3	581.5	562.8	556.1	556.1	558.6	561.1
25°	611.0	602.6	580.6	555.2	537.5	532.3	534.0	538.3	541.7
27.5°	582.3	572.9	550.1	526.4	508.7	506.1	510.4	516.3	518.0
30°	543.4	535.8	516.3	493.5	478.2	477.3	483.2	487.5	491.8
32.5°	506.1	497.7	479.0	457.1	446.0	446.8	453.7	458.8	461.3
35°	463.0	455.4	441.8	424.0	413.9	415.6	423.2	428.3	429.1
37.5°	422.3	417.3	403.7	390.2	382.6	385.9	392.7	398.6	398.6
40°	381.7	377.5	367.4	356.3	352.1	356.3	363.0	368.2	368.2
42.5°	342.8	340.2	331.8	324.2	321.7	327.6	333.5	337.7	336.9
45°	308.1	305.5	299.6	293.7	292.9	298.8	303.8	306.4	307.2
47.5°	276.7	275.0	270.0	265.7	265.7	271.6	275.9	278.5	279.2
50°	248.0	246.3	242.1	238.7	239.6	245.5	248.8	251.4	252.2
52.5°	219.2	218.3	215.0	210.7	213.3	217.5	221.7	223.4	224.3
55°	194.7	194.7	190.4	187.0	188.7	192.9	195.6	196.4	196.4
57.5°	172.7	171.8	166.7	163.4	164.2	168.4	170.1	171.0	171.0
60°	151.4	150.7	145.5	140.5	140.5	143.0	143.8	144.7	144.7
62.5°	131.2	130.3	124.4	120.2	118.5	117.7	117.7	119.4	122.7
65°	112.6	111.8	105.7	99.0	96.5	93.9	91.4	93.1	94.8
67.5°	95.6	93.9	88.0	82.1	76.2	72.0	67.8	70.3	73.7
70°	79.6	77.9	71.1	64.4	57.5	50.8	47.4	50.8	52.5
72.5°	64.4	62.6	55.8	49.1	40.6	33.9	33.0	33.9	34.7
75°	49.9	49.1	42.3	34.7	26.3	21.1	21.1	21.1	21.1
77.5°	37.3	35.6	28.8	22.1	15.2	11.8	11.0	11.0	11.0
80°	25.4	23.6	17.7	12.7	6.8	5.1	5.1	4.2	4.2
82.5°	14.4	13.5	9.3	5.1	2.5	1.7	1.7	1.7	1.7
85°	5.9	5.1	3.4	1.7	0.8	0.8	0.8	0.8	0.8
87.5°	0.8	0.8	0.8	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)