

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: P592653

Luminaire Tested: **HCC4S15D010BZ-HM40525950-41WWBB**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P592653
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-17)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC4S15D010BZ-HM40525950-41WWBB
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WALLWASH DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

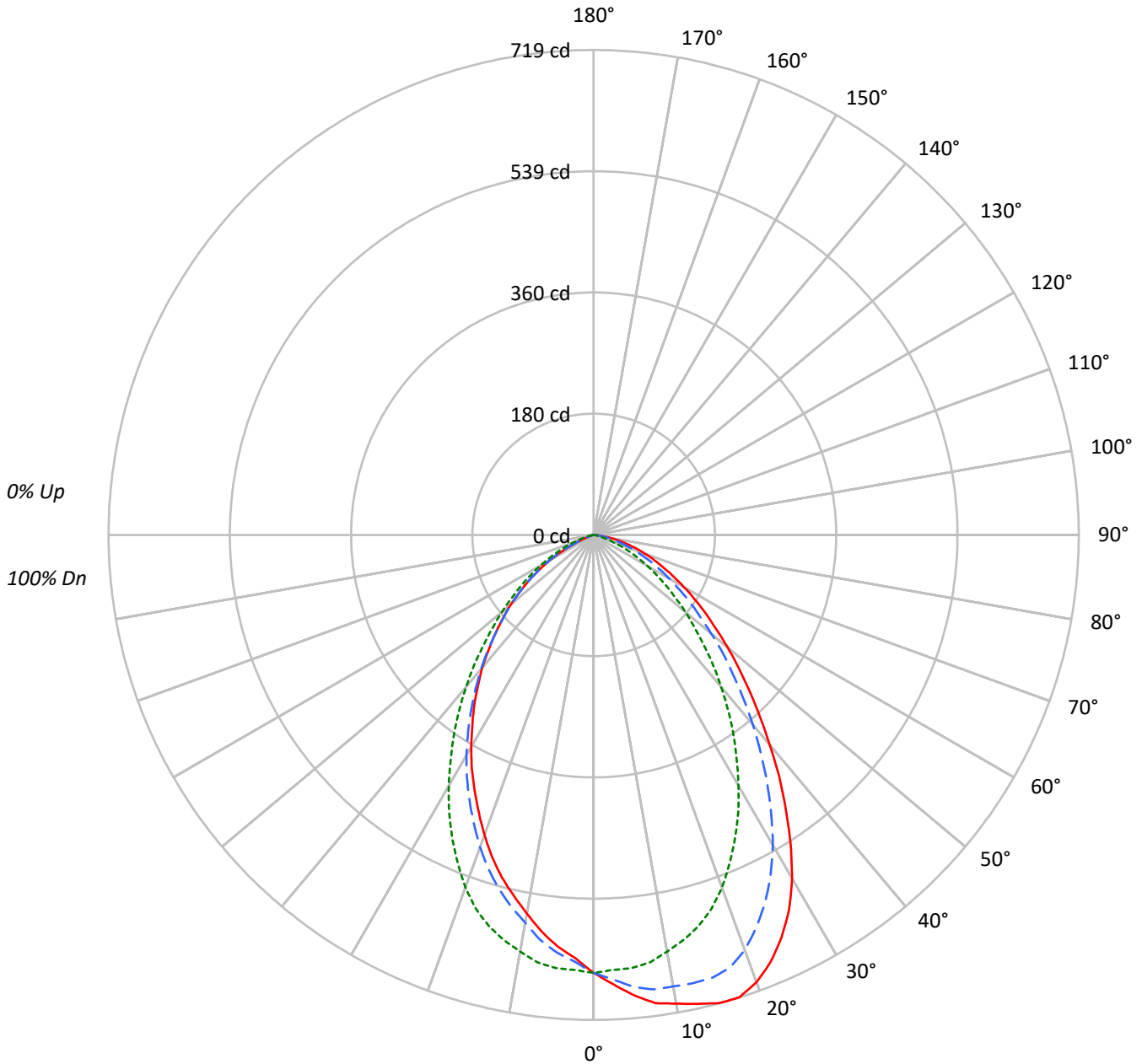
Lumens per Lamp: N/A
Luminaire Lumens: 1121.5 lumens
Efficiency: N/A
Efficacy: 80.1 lumens/watt
Spacing Criteria (0/90/45): 1.11 / 1.04 / 1.12
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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: P592653
CATALOG NUMBER: HCC4S15D010BZ-HM40525950-41WWBB

Luminous Intensity Polar Plot



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



TEST NUMBER: P592653

CATALOG NUMBER: HCC4S15D010BZ-HM40525950-41WWBB

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	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	108	104	101	109	105	102	100	101	99	97	97	95	94	94	92	91	89								
2	103	97	91	87	101	95	90	86	92	87	84	88	85	82	85	83	80	78								
3	96	87	80	75	94	86	79	74	83	78	73	80	76	72	78	74	71	69								
4	89	79	72	66	87	78	71	65	75	69	65	73	68	64	71	67	63	61								
5	83	72	64	58	81	71	64	58	69	62	58	67	61	57	65	60	56	55								
6	77	66	58	52	75	65	57	52	63	57	52	61	56	51	60	55	51	49								
7	72	60	53	47	71	59	52	47	58	51	47	57	51	46	55	50	46	44								
8	68	56	48	43	66	55	48	43	54	47	43	53	47	42	51	46	42	40								
9	64	52	44	39	62	51	44	39	50	43	39	49	43	39	48	43	39	37								
10	60	48	41	36	59	47	41	36	46	40	36	46	40	36	45	39	36	34								

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	80076	80076	80076
5°	84852	79825	75825
10°	88375	78543	71379
15°	91763	76656	67105
20°	92618	72981	62074
25°	89633	67504	56820
30°	83790	61158	51687
35°	74686	54373	46453
40°	65292	47290	41333
45°	56866	40121	35760
50°	49623	34042	30645
55°	43504	28193	24816
60°	38064	22770	18230
65°	33155	16986	10244
70°	28995	10999	3318
75°	23781	5767	858
80°	17687	2557	639
85°	10473	1274	1274



TEST NUMBER: P592653
 CATALOG NUMBER: HCC4S15D010BZ-HM40525950-41WWBB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.3	5.5
10°-20°	171.5	15.3
20°-30°	237.1	21.1
30°-40°	238.4	21.3
40°-50°	192.4	17.2
50°-60°	130.1	11.6
60°-70°	66.2	5.9
70°-80°	21.2	1.9
80°-90°	3.2	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°	469.9	41.9
0°-40°	708.3	63.2
0°-60°	1030.8	91.9
0°-90°	1121.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1121.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	649	649	649	649	649	
5°	685	672	645	622	612	66
15°	719	680	600	543	526	202
25°	659	601	496	435	418	301
35°	496	448	361	316	308	310
45°	326	292	230	205	205	253
55°	202	174	131	114	115	182
65°	114	92	58	38	35	114
75°	50	35	12	3	2	54
85°	7	4	1	1	1	10
90°	0	0	0	0	0	



TEST NUMBER: P592653

CATALOG NUMBER: HCC4S15D010BZ-HM40525950-41WWBB

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	649.2	649.2	649.2	649.2	649.2	649.2	649.2	649.2	649.2
2.5°	666.9	663.1	659.5	653.0	645.6	638.2	633.5	629.9	628.1
5°	685.3	680.7	672.4	658.6	644.7	631.7	621.6	615.1	612.4
7.5°	700.1	693.6	679.7	660.4	639.1	618.8	605.9	596.6	592.9
10°	705.6	698.2	679.7	653.9	627.1	602.2	583.7	574.4	569.9
12.5°	712.1	703.8	680.7	648.3	615.1	585.6	564.3	552.4	547.7
15°	718.6	707.4	679.7	640.0	600.3	566.1	543.0	531.1	525.5
17.5°	718.6	705.6	672.4	626.1	580.9	545.0	519.0	505.2	500.6
20°	705.6	690.8	654.8	604.0	556.0	517.2	492.3	478.4	472.9
22.5°	685.3	668.7	629.9	577.3	526.4	488.6	463.7	450.7	445.1
25°	658.6	641.8	601.2	546.8	496.0	458.1	435.0	423.0	417.5
27.5°	627.1	608.6	568.0	513.5	463.7	427.6	406.4	395.3	390.7
30°	588.3	570.8	531.1	477.5	429.4	396.2	376.8	366.7	362.9
32.5°	543.0	528.3	489.5	439.7	394.3	363.8	346.3	338.0	334.4
35°	496.0	482.1	448.0	401.7	361.1	332.5	315.9	310.3	308.5
37.5°	451.6	439.7	406.4	363.8	327.0	302.0	287.2	283.6	281.6
40°	405.5	397.2	366.7	327.9	293.7	271.5	259.6	256.7	256.7
42.5°	363.8	354.6	327.9	292.8	262.3	240.1	231.8	229.0	230.0
45°	326.0	316.8	291.9	259.6	230.0	211.5	205.0	205.0	205.0
47.5°	291.0	282.7	259.6	226.3	202.3	187.5	181.0	181.0	181.9
50°	258.6	253.1	227.2	198.5	177.4	163.5	158.8	157.9	159.7
52.5°	228.1	221.7	198.5	172.7	152.4	141.3	136.7	135.8	136.7
55°	202.3	194.9	174.5	149.6	131.1	120.1	114.5	113.6	115.4
57.5°	177.4	171.8	150.5	128.4	110.9	99.7	95.2	93.2	94.3
60°	154.3	148.7	129.3	108.0	92.3	81.3	74.8	73.0	73.9
62.5°	133.0	128.4	109.9	89.6	73.9	63.7	57.3	52.6	54.5
65°	113.6	109.0	92.3	72.1	58.2	47.1	37.9	34.2	35.1
67.5°	97.0	91.4	75.7	57.3	43.4	31.4	21.3	19.4	19.4
70°	80.4	74.8	60.9	44.3	30.5	16.6	9.2	9.2	9.2
72.5°	64.7	60.0	47.1	33.2	19.4	7.4	3.6	3.6	3.6
75°	49.9	46.2	35.1	23.1	12.1	3.6	2.7	1.8	1.8
77.5°	37.0	33.2	24.9	15.7	7.4	1.8	1.8	1.8	1.8
80°	24.9	22.2	16.6	9.2	3.6	0.9	0.9	0.9	0.9
82.5°	14.8	13.0	9.2	4.7	1.8	0.9	0.9	0.9	0.9
85°	7.4	5.6	3.6	1.8	0.9	0.9	0.9	0.9	0.9
87.5°	1.8	0.9	0.9	0.9	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)