

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: P579952

Luminaire Tested: **HCC4S15D010MW-HM40525935-41WWW**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P579952
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC4S15D010MW-HM40525935-41WWW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WALLWASH DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

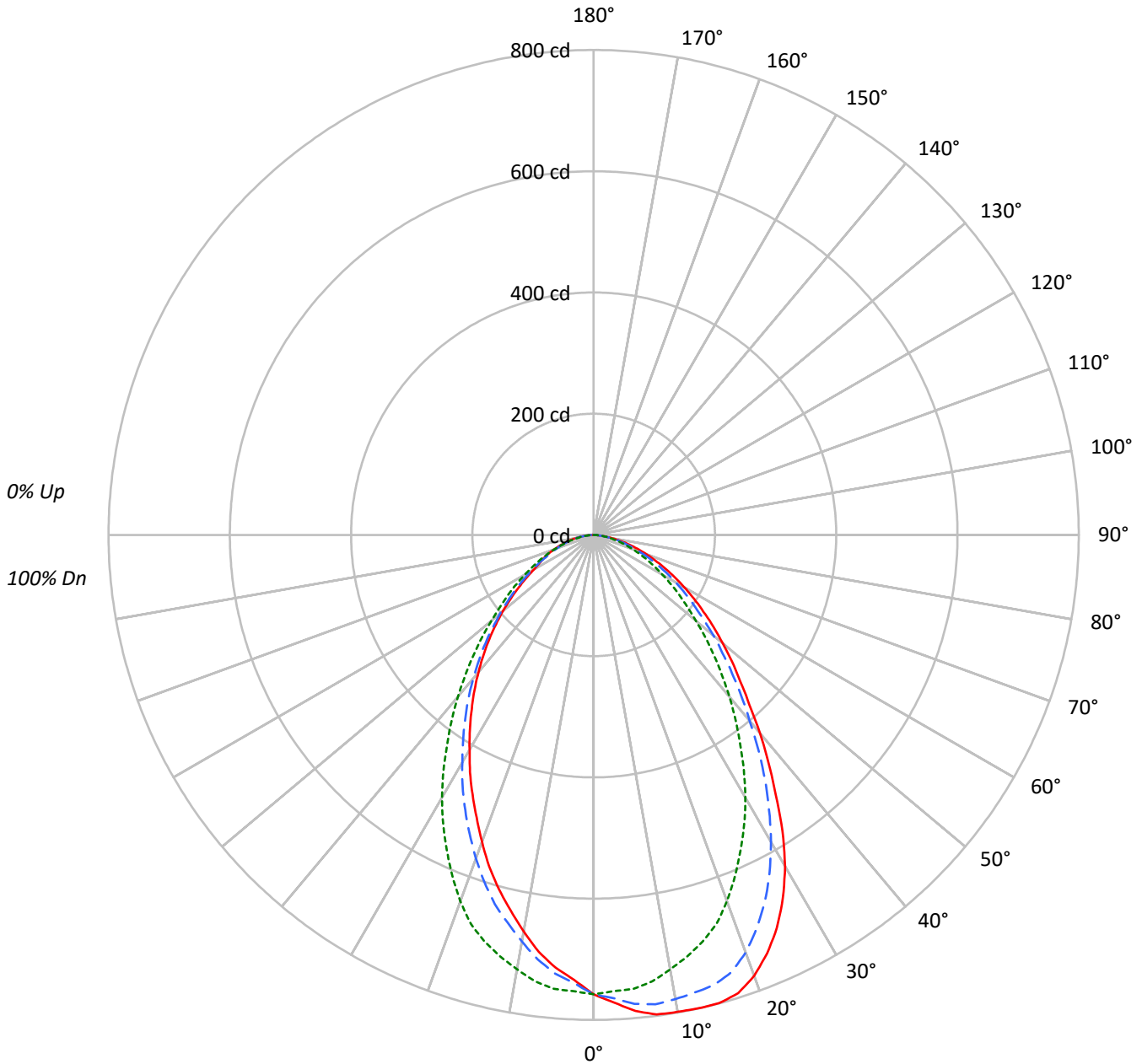
Lumens per Lamp: N/A
Luminaire Lumens: 1353.3 lumens
Efficiency: N/A
Efficacy: 96.7 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.03 / 1.1
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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: P579952
CATALOG NUMBER: HCC4S15D010MW-HM40525935-41WWW

Luminous Intensity Polar Plot



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



TEST NUMBER: P579952

CATALOG NUMBER: HCC4S15D010MW-HM40525935-41WWW

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	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	106	103	100	108	104	101	98	100	97	95	96	94	92	93	91	89	87					87			
2	102	95	89	84	100	93	88	83	90	85	81	87	83	80	84	81	78	76					76			
3	94	85	78	72	92	84	77	72	81	75	71	78	73	69	76	72	68	66					66			
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	69	61	56	67	60	55	65	59	54	63	58	54	52					52			
6	76	64	56	50	74	63	55	50	61	54	49	59	53	49	58	53	48	47					47			
7	71	58	50	45	69	58	50	45	56	49	44	55	49	44	53	48	44	42					42			
8	66	54	46	41	65	53	46	41	52	45	40	51	45	40	50	44	40	38					38			
9	62	50	42	37	61	49	42	37	48	42	37	47	41	37	46	41	37	35					35			
10	59	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	32					32			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	93471	93471	93471
5°	97592	93061	88764
10°	100061	91131	83190
15°	102132	88698	77193
20°	101597	84388	70684
25°	97323	78024	64306
30°	89914	71242	58281
35°	78812	63363	52762
40°	68609	55985	47532
45°	59727	48825	42458
50°	53212	42082	37457
55°	47547	36988	32408
60°	42431	32341	27925
65°	37738	28369	26559
70°	33143	24451	24776
75°	28070	20826	22923
80°	21594	17758	20883
85°	12596	13869	17690



TEST NUMBER: P579952
 CATALOG NUMBER: HCC4S15D010MW-HM40525935-41WWW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.0	5.2
10°-20°	195.9	14.5
20°-30°	267.7	19.8
30°-40°	268.8	19.9
40°-50°	222.4	16.4
50°-60°	161.1	11.9
60°-70°	102.1	7.5
70°-80°	51.6	3.8
80°-90°	12.6	0.9
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°	534.7	39.5
0°-40°	803.5	59.4
0°-60°	1187.0	87.7
0°-90°	1353.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1353.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	758	758	758	758	758	
5°	788	777	752	727	717	76
15°	800	768	695	630	604	225
25°	715	668	573	501	472	327
35°	523	492	421	369	350	328
45°	342	323	280	252	243	266
55°	221	202	172	157	151	199
65°	129	115	97	87	91	129
75°	59	51	44	46	48	63
85°	9	9	10	12	12	12
90°	0	0	0	0	0	



TEST NUMBER: P579952

CATALOG NUMBER: HCC4S15D010MW-HM40525935-41WWW

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	757.8	757.8	757.8	757.8	757.8	757.8	757.8	757.8	757.8
2.5°	772.1	769.4	765.0	759.6	753.4	746.2	740.1	736.4	734.6
5°	788.2	784.6	776.6	765.0	751.6	738.3	726.7	719.5	716.9
7.5°	797.9	792.6	781.0	763.2	742.7	723.1	706.2	696.3	693.7
10°	798.9	792.6	777.5	753.4	727.6	701.6	681.2	667.0	664.2
12.5°	799.8	791.7	773.0	744.5	712.3	680.3	655.4	638.4	633.9
15°	799.8	791.7	768.5	734.6	694.6	658.0	630.4	610.7	604.5
17.5°	792.6	783.7	756.1	716.9	673.1	632.2	600.0	579.5	573.3
20°	774.0	764.1	732.9	690.0	642.9	600.0	567.9	546.6	538.5
22.5°	747.1	735.5	702.6	656.2	609.0	565.3	534.0	511.8	504.6
25°	715.1	703.5	667.8	622.3	573.3	532.2	501.1	480.6	472.5
27.5°	675.8	663.3	628.5	583.1	537.6	496.6	468.1	449.3	441.4
30°	631.3	617.8	584.9	541.2	500.2	460.9	433.3	418.2	409.2
32.5°	579.5	567.9	538.5	499.3	460.9	423.5	400.3	386.9	379.9
35°	523.4	517.1	492.2	458.3	420.8	389.6	369.1	356.7	350.4
37.5°	473.4	467.2	445.8	417.3	384.3	355.8	338.8	328.1	322.8
40°	426.1	420.8	400.3	376.2	347.7	322.8	308.5	300.5	295.2
42.5°	379.9	377.1	360.2	337.9	312.9	291.5	279.9	273.7	269.2
45°	342.4	338.8	322.8	301.3	279.9	262.1	252.3	247.9	243.4
47.5°	309.4	304.9	288.0	269.2	249.7	233.5	224.7	220.2	218.4
50°	277.3	272.9	257.6	239.0	219.3	207.7	200.6	196.1	195.2
52.5°	248.8	244.3	227.4	209.5	194.3	184.5	178.3	173.8	172.0
55°	221.1	215.8	201.5	184.5	172.0	163.2	156.9	152.5	150.7
57.5°	196.1	190.8	178.3	162.2	150.7	142.7	137.3	132.8	131.1
60°	172.0	167.6	156.0	140.9	131.1	123.9	118.6	115.1	113.2
62.5°	149.7	146.2	134.6	121.2	113.2	107.0	102.6	98.9	100.7
65°	129.3	125.8	115.1	103.5	97.2	91.0	87.3	87.3	91.0
67.5°	109.7	106.1	97.2	87.3	82.0	77.5	74.9	77.5	80.3
70°	91.9	88.2	80.3	72.2	67.8	64.2	64.2	66.9	68.7
72.5°	74.9	71.3	65.0	58.9	55.3	52.6	55.3	57.1	58.9
75°	58.9	56.2	50.8	46.4	43.7	42.8	45.5	47.3	48.1
77.5°	43.7	42.0	38.3	34.8	33.0	33.9	36.6	37.4	38.3
80°	30.4	29.4	26.7	25.0	25.0	25.8	27.6	28.5	29.4
82.5°	18.8	18.8	16.9	16.0	16.9	18.8	19.7	20.5	20.5
85°	8.9	9.8	8.9	8.9	9.8	11.6	11.6	12.5	12.5
87.5°	2.7	2.7	3.5	3.5	4.4	4.4	4.4	4.4	5.3
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)