

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: P579808

Luminaire Tested: **HCC4S10D010SL-HM40525935-41WWW**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P579808
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: HCC4S10D010SL-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

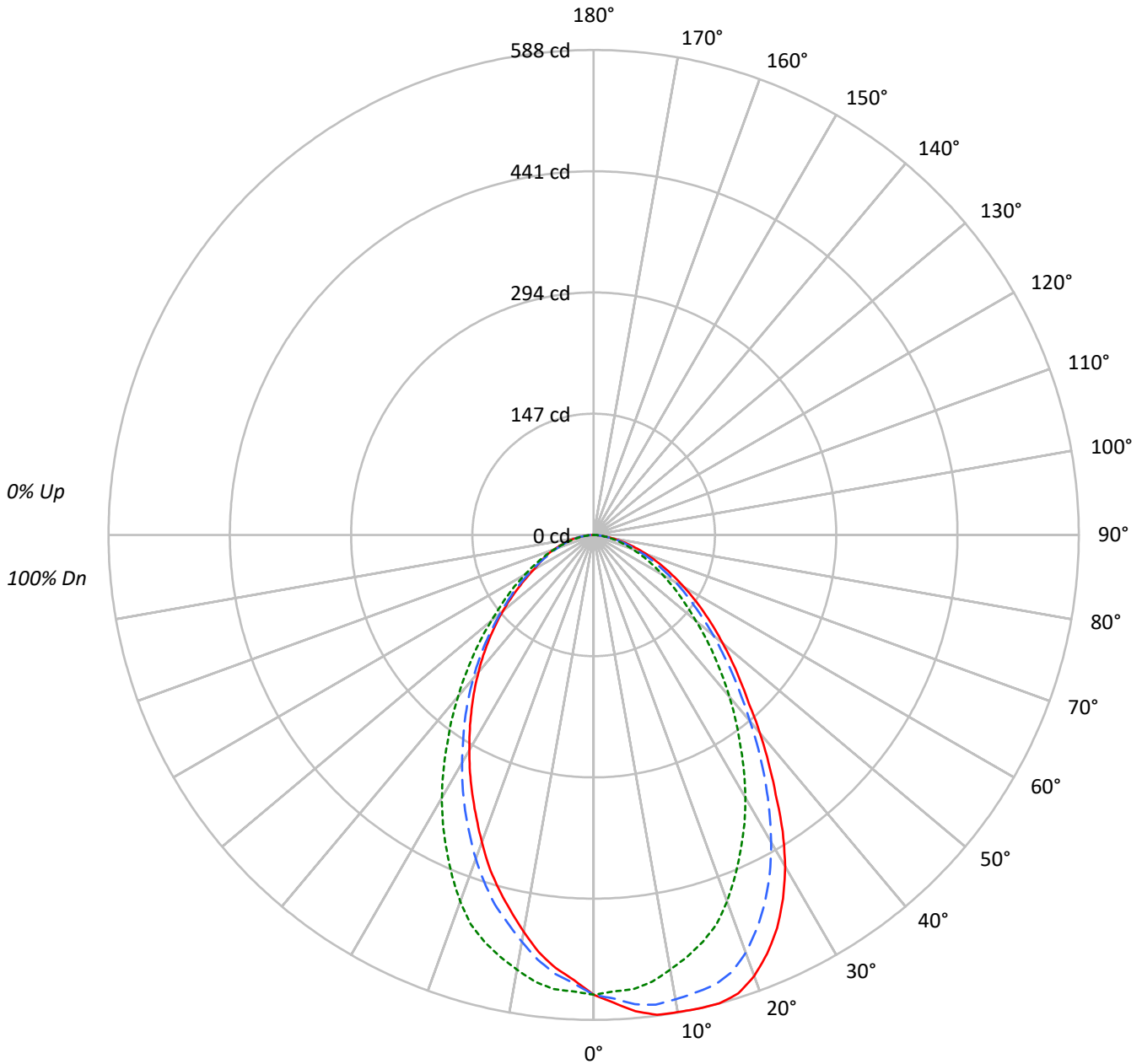
Lumens per Lamp: N/A
Luminaire Lumens: 995.4 lumens
Efficiency: N/A
Efficacy: 100.5 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.03 / 1.1
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 9.9
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: P579808
CATALOG NUMBER: HCC4S10D010SL-HM40525935-41WWW

Luminous Intensity Polar Plot



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



TEST NUMBER: P579808

CATALOG NUMBER: HCC4S10D010SL-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	0					
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100								
1	111	106	103	100	108	104	101	98	100	97	95	96	94	92	93	91	89	87								
2	102	95	89	84	100	93	88	83	90	85	81	87	83	80	84	81	78	76								
3	94	85	78	72	92	84	77	72	81	75	71	78	73	69	76	72	68	66								
4	87	77	69	63	85	76	68	63	73	67	62	71	66	61	69	64	60	58								
5	81	70	62	56	79	69	61	56	67	60	55	65	59	54	63	58	54	52								
6	76	64	56	50	74	63	55	50	61	54	49	59	53	49	58	53	48	47								
7	71	58	50	45	69	58	50	45	56	49	44	55	49	44	53	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	42	37	47	41	37	46	41	37	35								
10	59	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°	68753	68753	68753
5°	71777	68446	65276
10°	73583	67020	61184
15°	75111	65228	56774
20°	74714	62061	51980
25°	71573	57378	47294
30°	66129	52399	42871
35°	57972	46604	38819
40°	50463	41172	34941
45°	43923	35917	31224
50°	39127	30971	27556
55°	34967	27203	23827
60°	31206	23781	20549
65°	27756	20868	19525
70°	24379	17960	18212
75°	20588	15298	16871
80°	15840	12999	15343
85°	9341	10190	13020



TEST NUMBER: P579808
 CATALOG NUMBER: HCC4S10D010SL-HM40525935-41WWW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.2	5.2
10°-20°	144.1	14.5
20°-30°	196.9	19.8
30°-40°	197.7	19.9
40°-50°	163.6	16.4
50°-60°	118.5	11.9
60°-70°	75.1	7.5
70°-80°	37.9	3.8
80°-90°	9.3	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°	393.3	39.5
0°-40°	591.0	59.4
0°-60°	873.1	87.7
0°-90°	995.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	995.4	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	557	557	557	557	557	
5°	580	571	553	534	527	56
15°	588	565	511	464	445	165
25°	526	491	422	368	348	240
35°	385	362	310	272	258	241
45°	252	237	206	186	179	196
55°	163	148	126	115	111	146
65°	95	85	72	64	67	95
75°	43	37	32	34	35	46
85°	7	7	7	8	9	9
90°	0	0	0	0	0	



TEST NUMBER: P579808

CATALOG NUMBER: HCC4S10D010SL-HM40525935-41WWW

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	557.4	557.4	557.4	557.4	557.4	557.4	557.4	557.4	557.4
2.5°	567.9	565.9	562.6	558.8	554.1	548.9	544.3	541.7	540.3
5°	579.7	577.1	571.2	562.6	552.8	542.9	534.4	529.2	527.2
7.5°	586.9	583.0	574.5	561.4	546.2	531.8	519.4	512.1	510.2
10°	587.5	583.0	571.8	554.1	535.1	516.1	500.9	490.5	488.5
12.5°	588.2	582.3	568.5	547.6	523.9	500.4	481.9	469.5	466.2
15°	588.2	582.3	565.2	540.3	510.8	484.0	463.6	449.2	444.6
17.5°	583.0	576.4	556.0	527.2	495.1	465.0	441.3	426.3	421.6
20°	569.2	561.9	539.1	507.5	472.8	441.3	417.8	401.9	396.0
22.5°	549.5	541.0	516.8	482.6	447.9	415.7	392.8	376.5	371.2
25°	525.9	517.4	491.2	457.7	421.6	391.5	368.5	353.5	347.5
27.5°	497.1	487.9	462.3	428.9	395.5	365.3	344.2	330.5	324.6
30°	464.3	454.4	430.2	398.1	367.9	339.0	318.8	307.6	301.0
32.5°	426.3	417.8	396.0	367.2	339.0	311.5	294.4	284.6	279.4
35°	385.0	380.3	362.0	337.1	309.5	286.5	271.5	262.3	257.8
37.5°	348.2	343.6	327.9	306.9	282.7	261.6	249.2	241.4	237.4
40°	313.4	309.5	294.4	276.8	255.7	237.4	226.9	221.0	217.0
42.5°	279.4	277.3	264.9	248.5	230.2	214.4	205.9	201.3	198.0
45°	251.8	249.2	237.4	221.7	205.9	192.8	185.6	182.3	179.0
47.5°	227.6	224.3	211.8	198.0	183.6	171.8	165.2	161.9	160.7
50°	203.9	200.6	189.5	175.7	161.4	152.8	147.6	144.3	143.6
52.5°	183.0	179.7	167.2	154.1	142.9	135.8	131.1	127.9	126.5
55°	162.6	158.6	148.2	135.8	126.5	120.1	115.4	112.1	110.8
57.5°	144.3	140.3	131.1	119.4	110.8	104.9	100.9	97.8	96.4
60°	126.5	123.2	114.7	103.6	96.4	91.2	87.2	84.6	83.3
62.5°	110.2	107.5	99.0	89.2	83.3	78.6	75.4	72.8	74.1
65°	95.1	92.4	84.6	76.0	71.5	66.9	64.3	64.3	66.9
67.5°	80.7	78.1	71.5	64.3	60.3	57.0	55.1	57.0	59.1
70°	67.6	64.9	59.1	53.1	49.8	47.2	47.2	49.2	50.5
72.5°	55.1	52.5	47.9	43.2	40.6	38.7	40.6	42.0	43.2
75°	43.2	41.3	37.3	34.1	32.1	31.5	33.5	34.7	35.4
77.5°	32.1	30.8	28.2	25.6	24.2	24.9	26.9	27.5	28.2
80°	22.3	21.6	19.7	18.3	18.3	19.0	20.4	20.9	21.6
82.5°	13.8	13.8	12.4	11.8	12.4	13.8	14.5	15.1	15.1
85°	6.6	7.2	6.6	6.6	7.2	8.5	8.5	9.2	9.2
87.5°	1.9	1.9	2.6	2.6	3.3	3.3	3.3	3.3	4.0
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)