

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: P579824

Luminaire Tested: **HCC4S10D010MW-HM40525940-41RWWH**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P579824
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: HCC4S10D010MW-HM40525940-41RWWH
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WALLWASH DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

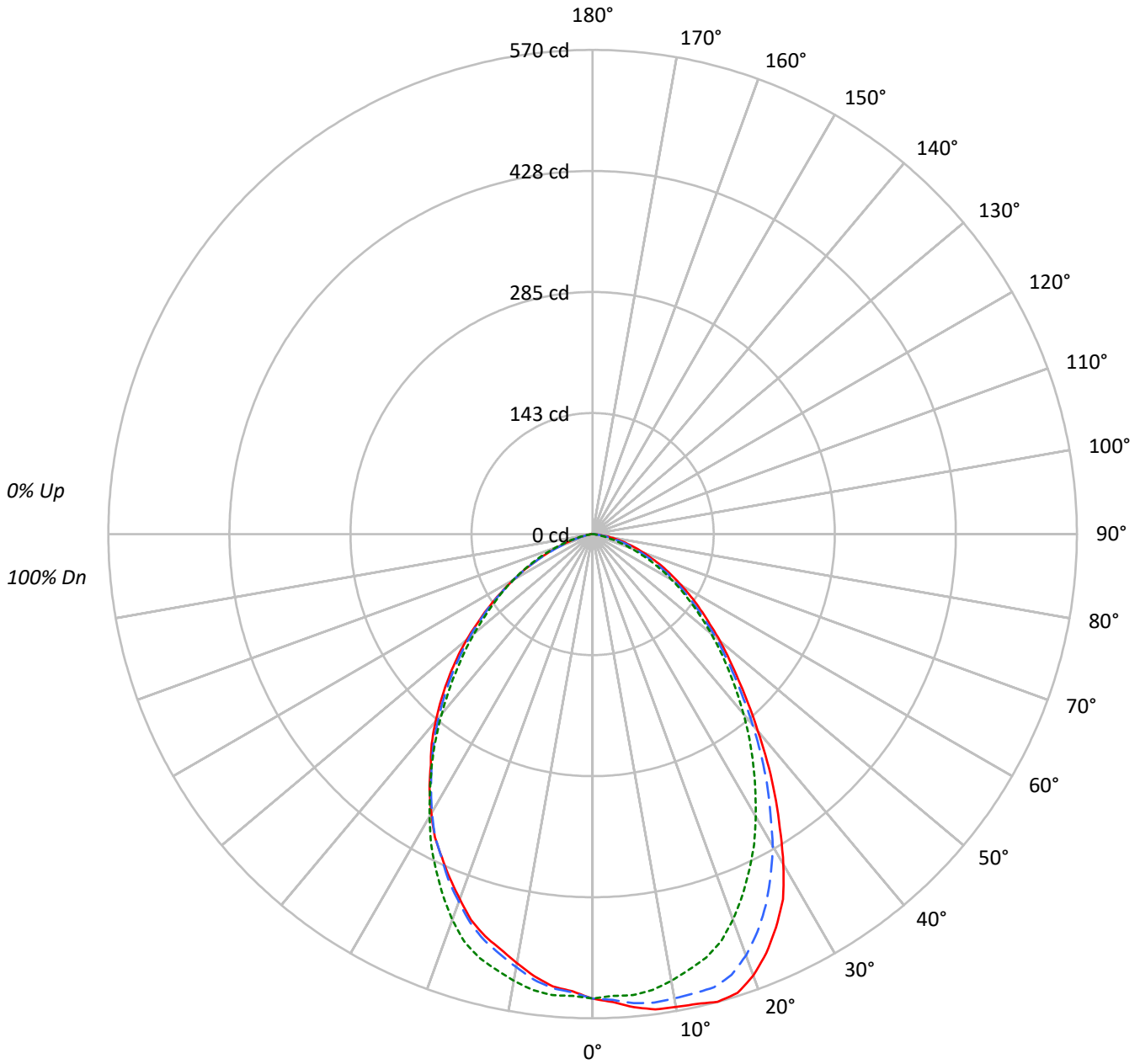
Lumens per Lamp: N/A
Luminaire Lumens: 1042.3 lumens
Efficiency: N/A
Efficacy: 105.3 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.08 / 1.16
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 9.9
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: P579824
CATALOG NUMBER: HCC4S10D010MW-HM40525940-41RWWH

Luminous Intensity Polar Plot



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



TEST NUMBER: P579824

CATALOG NUMBER: HCC4S10D010MW-HM40525940-41RWWH

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	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°	67445	67445	67445
5°	69226	67455	66192
10°	70778	66870	64240
15°	72774	65930	62546
20°	72588	63399	60000
25°	69518	59352	57133
30°	63964	54664	54094
35°	56256	49615	50022
40°	48675	44424	46260
45°	42301	39458	41830
50°	37534	34809	37150
55°	33311	30537	31848
60°	29677	26470	26470
65°	26384	22006	20635
70°	22792	16661	14678
75°	19110	11009	9055
80°	14491	5327	4830
85°	7784	1981	1981



TEST NUMBER: P579824

CATALOG NUMBER: HCC4S10D010MW-HM40525940-41RWWH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.8	5.0
10°-20°	146.8	14.1
20°-30°	207.0	19.9
30°-40°	213.9	20.5
40°-50°	181.3	17.4
50°-60°	131.9	12.7
60°-70°	77.1	7.4
70°-80°	28.6	2.7
80°-90°	3.8	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°	405.7	38.9
0°-40°	619.5	59.4
0°-60°	932.8	89.5
0°-90°	1042.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1042.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	547	547	547	547	547	
5°	559	554	545	537	535	54
15°	570	552	516	495	490	160
25°	511	482	436	420	420	234
35°	374	357	330	330	332	233
45°	242	236	226	234	240	189
55°	155	147	142	147	148	139
65°	90	83	75	71	71	90
75°	40	33	23	18	19	43
85°	6	3	1	1	1	8
90°	0	0	0	0	0	



TEST NUMBER: P579824

CATALOG NUMBER: HCC4S10D010MW-HM40525940-41RWWH

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	546.8	546.8	546.8	546.8	546.8	546.8	546.8	546.8	546.8
2.5°	551.6	550.2	548.9	546.8	544.1	542.0	540.1	538.7	538.7
5°	559.1	557.1	554.3	549.5	544.8	540.8	536.7	534.6	534.6
7.5°	564.4	561.8	556.4	549.5	541.3	535.3	529.2	526.4	525.1
10°	565.1	562.5	555.0	544.8	533.9	524.4	517.7	513.6	512.9
12.5°	566.5	563.2	553.6	539.4	525.1	513.6	506.1	502.0	500.6
15°	569.9	565.1	552.3	533.9	516.3	502.7	494.6	491.2	489.8
17.5°	566.5	559.8	544.1	522.3	502.7	487.7	479.6	476.1	476.1
20°	553.0	546.1	527.8	504.0	483.0	468.7	460.5	458.5	457.1
22.5°	533.9	526.4	506.8	481.6	460.5	447.7	442.2	439.5	438.8
25°	510.8	503.3	482.3	456.5	436.1	425.3	420.5	420.5	419.8
27.5°	485.0	475.5	453.7	431.3	411.6	403.5	401.5	401.5	402.2
30°	449.1	442.2	423.9	402.2	383.8	378.4	378.4	379.8	379.8
32.5°	410.2	405.6	389.2	370.2	356.0	352.6	353.9	356.6	357.3
35°	373.6	368.1	357.3	340.4	329.5	328.1	330.1	332.2	332.2
37.5°	337.6	332.2	324.7	311.1	302.9	303.6	306.3	309.1	311.1
40°	302.3	298.2	292.8	281.9	275.9	278.5	281.9	284.6	287.3
42.5°	271.1	267.0	262.9	254.7	250.7	254.0	258.1	260.8	263.6
45°	242.5	239.8	235.7	229.0	226.2	229.6	234.3	237.0	239.8
47.5°	218.0	216.7	211.2	205.2	203.8	207.2	211.2	214.6	216.7
50°	195.6	193.6	188.8	182.8	181.4	186.9	189.5	191.5	193.6
52.5°	173.9	171.8	166.4	161.0	161.0	165.1	167.1	167.7	169.8
55°	154.9	152.8	147.4	143.4	142.0	145.3	146.7	146.7	148.1
57.5°	137.2	135.2	129.7	125.0	124.3	126.3	126.3	126.3	127.0
60°	120.3	118.2	112.8	108.7	107.3	108.0	107.3	106.6	107.3
62.5°	104.6	102.5	97.2	92.4	91.0	91.0	89.0	88.3	89.0
65°	90.4	86.9	82.8	78.1	75.4	73.4	70.7	70.7	70.7
67.5°	76.1	73.4	68.6	63.8	60.4	57.0	53.0	54.4	55.1
70°	63.2	61.1	55.6	51.0	46.2	42.1	38.7	40.1	40.7
72.5°	51.7	48.9	44.2	38.7	34.6	29.2	27.2	28.6	28.6
75°	40.1	37.3	33.2	27.9	23.1	18.3	18.3	19.0	19.0
77.5°	29.9	27.2	23.1	18.3	14.2	10.9	11.5	11.5	11.5
80°	20.4	18.3	14.9	10.9	7.5	6.1	6.1	6.1	6.8
82.5°	11.5	10.2	8.2	5.5	3.4	3.4	3.4	3.4	3.4
85°	5.5	4.1	3.4	2.0	1.4	1.4	1.4	1.4	1.4
87.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
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)