

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: P579732

Luminaire Tested: **HCC4S10D010BZ-HM40525835-41WDW**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P579732
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-9)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC4S10D010BZ-HM40525835-41WDW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

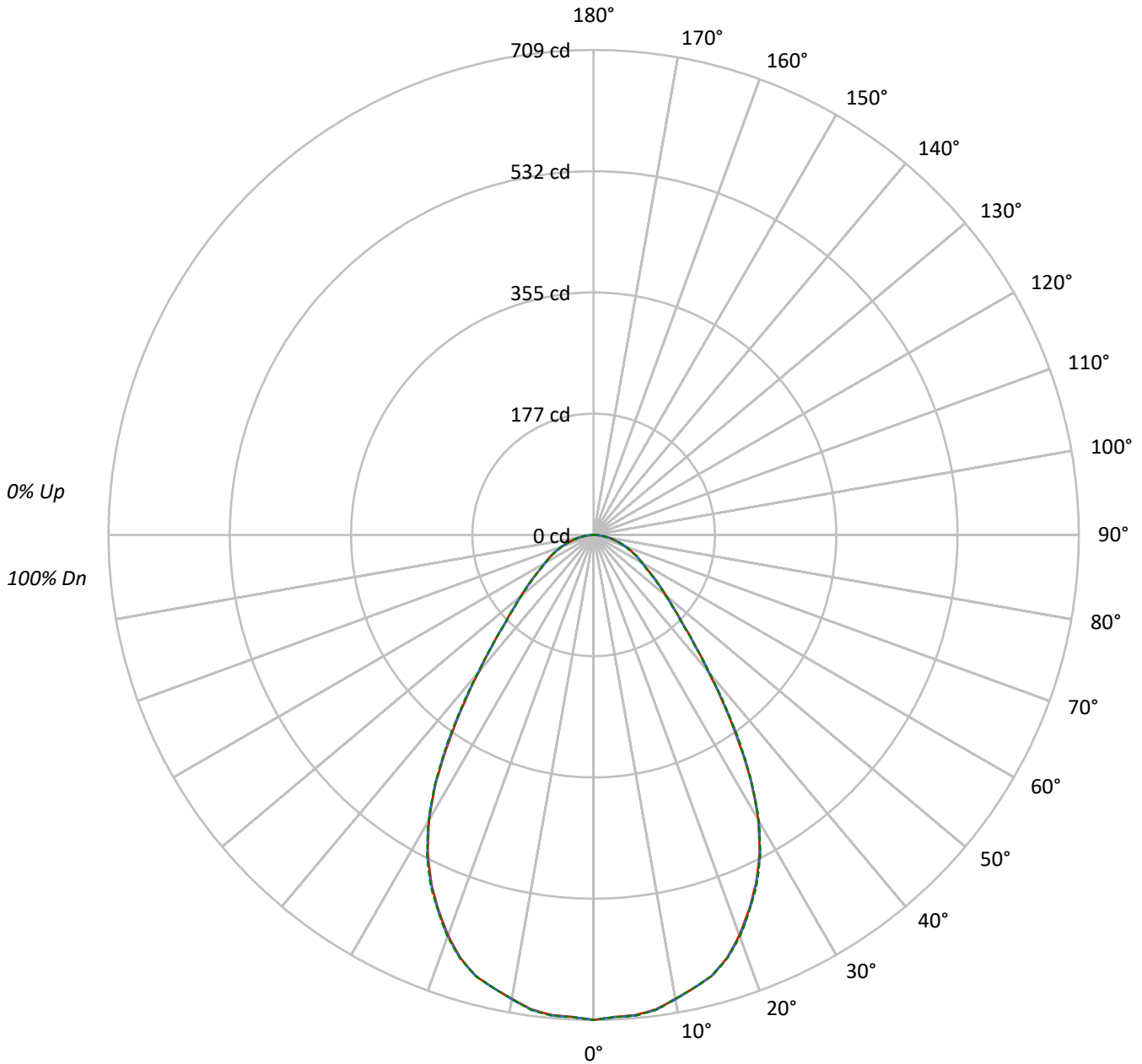
Lumens per Lamp: N/A
Luminaire Lumens: 1094.0 lumens
Efficiency: N/A
Efficacy: 110.5 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.07 / 1.04
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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: P579732
CATALOG NUMBER: HCC4S10D010BZ-HM40525835-41WDW

Luminous Intensity Polar Plot



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



TEST NUMBER: P579732

CATALOG NUMBER: HCC4S10D010BZ-HM40525835-41WDW

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	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	101	108	105	102	99	101	98	96	97	95	93	94	92	90	89								
2	103	97	91	87	101	95	90	86	91	87	84	88	85	82	85	83	80	78								
3	96	87	81	76	94	86	80	75	83	78	74	81	76	72	78	74	71	69								
4	90	80	72	67	87	78	72	66	76	70	66	74	69	65	72	68	64	62								
5	84	73	65	60	82	72	65	59	70	64	59	68	63	58	66	62	58	56								
6	78	67	59	54	77	66	59	54	64	58	53	63	57	53	61	56	53	51								
7	73	62	54	49	72	61	54	49	60	53	49	58	53	48	57	52	48	46								
8	69	57	50	45	68	57	50	45	55	49	45	54	49	44	53	48	44	42								
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	45	41	39								
10	61	50	43	38	60	49	43	38	48	42	38	48	42	38	47	42	38	36								

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	87464	87464	87464
5°	87241	87340	87340
10°	86234	86334	86234
15°	85199	85199	85199
20°	81710	81907	81986
25°	76418	76527	76731
30°	68479	68693	68693
35°	55593	56030	56150
40°	41961	42202	42315
45°	32131	32027	32027
50°	26481	26328	26328
55°	22730	22558	22558
60°	20278	20105	20105
65°	19058	19058	19058
70°	17743	17743	17743
75°	16108	16442	16108
80°	15130	14633	15130
85°	12454	12454	12454



TEST NUMBER: P579732
 CATALOG NUMBER: HCC4S10D010BZ-HM40525835-41WDW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.8	6.1
10°-20°	187.0	17.1
20°-30°	256.9	23.5
30°-40°	231.0	21.1
40°-50°	146.0	13.3
50°-60°	95.3	8.7
60°-70°	64.6	5.9
70°-80°	36.4	3.3
80°-90°	10.2	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°	510.7	46.7
0°-40°	741.7	67.8
0°-60°	982.9	89.8
0°-90°	1094.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1094.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	709	709	709	709	709	
5°	705	705	705	705	705	67
15°	667	667	667	667	667	187
25°	562	562	562	564	564	256
35°	369	371	372	374	373	230
45°	184	184	184	184	184	146
55°	106	106	105	106	105	96
65°	65	65	65	65	65	65
75°	34	34	34	34	34	36
85°	9	9	9	9	9	10
90°	0	0	0	0	0	



TEST NUMBER: P579732

CATALOG NUMBER: HCC4S10D010BZ-HM40525835-41WDW

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	709.1	709.1	709.1	709.1	709.1
2.5°	705.4	705.4	705.4	705.4	705.4
5°	704.6	704.6	705.4	705.4	705.4
7.5°	699.5	700.2	700.2	700.2	700.2
10°	688.5	688.5	689.3	689.3	688.5
12.5°	678.2	678.2	678.2	678.9	678.2
15°	667.2	667.2	667.2	667.2	667.2
17.5°	648.2	648.9	648.9	648.9	648.9
20°	622.5	624.0	624.0	624.6	624.6
22.5°	593.1	593.8	594.6	595.3	594.6
25°	561.5	562.3	562.3	563.8	563.8
27.5°	524.8	525.5	527.0	527.0	527.0
30°	480.8	481.5	482.3	482.3	482.3
32.5°	428.7	428.7	430.2	430.8	430.2
35°	369.2	370.6	372.1	373.6	372.9
37.5°	312.7	314.2	314.9	314.9	315.7
40°	260.6	262.1	262.1	263.6	262.8
42.5°	219.5	218.7	218.7	220.2	219.5
45°	184.2	183.6	183.6	183.6	183.6
47.5°	158.5	157.8	157.8	157.8	157.8
50°	138.0	137.2	137.2	137.2	137.2
52.5°	121.1	120.4	120.4	120.4	119.6
55°	105.7	105.7	104.9	105.7	104.9
57.5°	91.7	91.7	91.7	91.7	91.7
60°	82.2	81.5	81.5	81.5	81.5
62.5°	73.4	73.4	73.4	73.4	73.4
65°	65.3	65.3	65.3	65.3	65.3
67.5°	57.2	56.6	57.2	57.2	56.6
70°	49.2	48.5	49.2	49.2	49.2
72.5°	41.1	41.1	41.1	41.9	41.1
75°	33.8	34.5	34.5	34.5	33.8
77.5°	27.2	27.9	27.2	27.2	27.2
80°	21.3	20.6	20.6	20.6	21.3
82.5°	14.7	14.7	14.7	14.7	14.7
85°	8.8	8.8	8.8	8.8	8.8
87.5°	3.6	3.6	3.6	3.6	3.6
90°	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)