

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: P579700

Luminaire Tested: **HCC4W10D010BZ-HM40525827-41WWW**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P579700
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: HCC4W10D010BZ-HM40525827-41WWW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WALLWASH DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

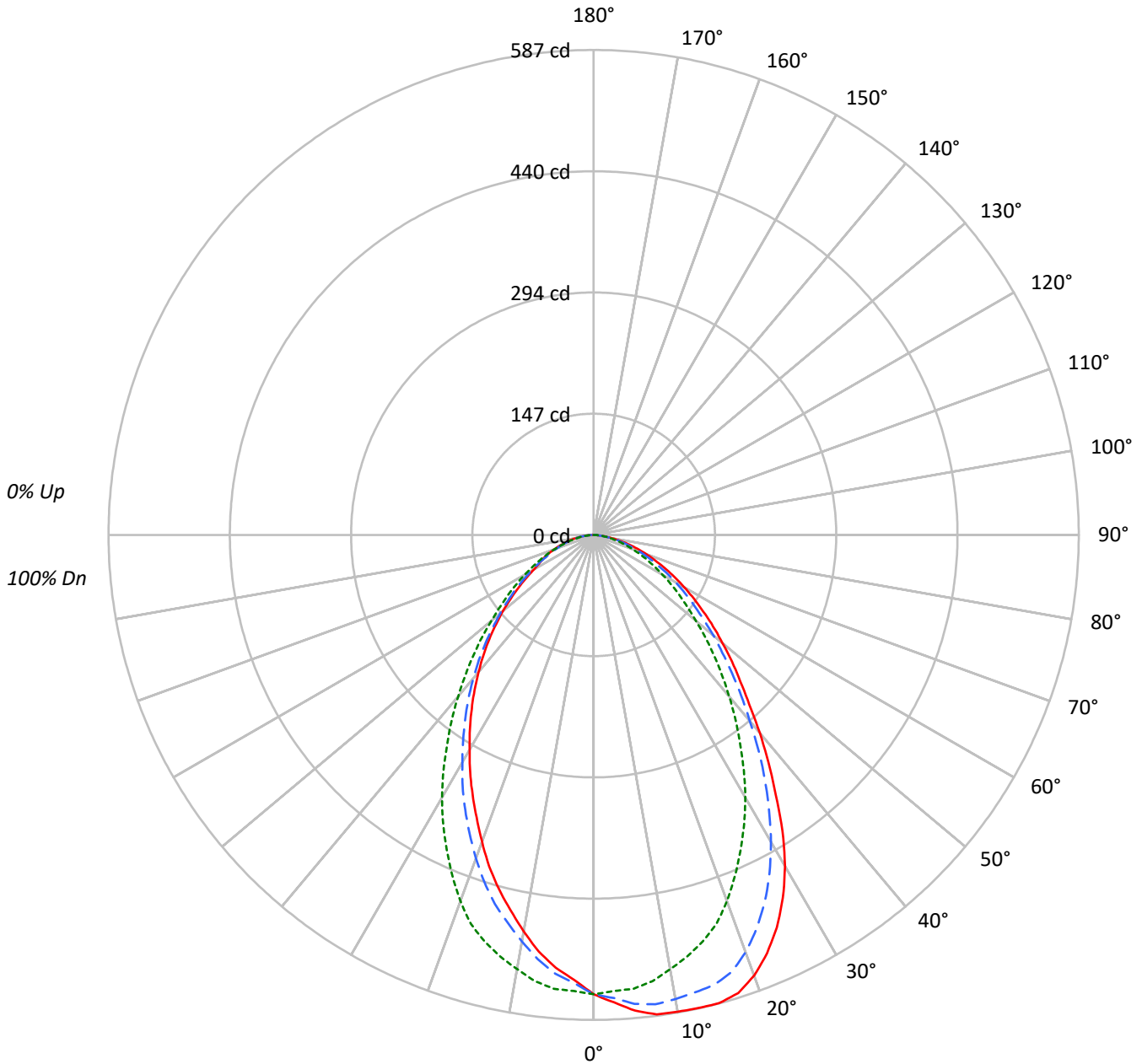
Lumens per Lamp: N/A
Luminaire Lumens: 992.8 lumens
Efficiency: N/A
Efficacy: 100.3 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.03 / 1.1
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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: P579700
CATALOG NUMBER: HCC4W10D010BZ-HM40525827-41WWW

Luminous Intensity Polar Plot



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



TEST NUMBER: P579700

CATALOG NUMBER: HCC4W10D010BZ-HM40525827-41WWW

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°	68568	68568	68568
5°	71591	68273	65115
10°	73396	66845	61034
15°	74907	65062	56634
20°	74517	61903	51848
25°	71383	57229	47171
30°	65958	52257	42757
35°	57822	46483	38713
40°	50334	41059	34844
45°	43819	35829	31154
50°	39031	30875	27498
55°	34881	27139	23763
60°	31132	23732	20500
65°	27668	20780	19467
70°	24307	17924	18176
75°	20540	15298	16823
80°	15769	12999	15343
85°	9199	10190	12879



TEST NUMBER: P579700
 CATALOG NUMBER: HCC4W10D010BZ-HM40525827-41WWW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.1	5.2
10°-20°	143.7	14.5
20°-30°	196.4	19.8
30°-40°	197.2	19.9
40°-50°	163.1	16.4
50°-60°	118.2	11.9
60°-70°	74.9	7.5
70°-80°	37.8	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°	392.2	39.5
0°-40°	589.4	59.4
0°-60°	870.8	87.7
0°-90°	992.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	992.8	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	556	556	556	556	556	
5°	578	570	551	533	526	55
15°	587	564	510	462	444	165
25°	524	490	420	368	347	240
35°	384	361	309	271	257	241
45°	251	237	205	185	179	195
55°	162	148	126	115	110	146
65°	95	84	71	64	67	94
75°	43	37	32	33	35	46
85°	6	6	7	8	9	9
90°	0	0	0	0	0	

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



TEST NUMBER: P579700

CATALOG NUMBER: HCC4W10D010BZ-HM40525827-41WWW

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	555.9	555.9	555.9	555.9	555.9	555.9	555.9	555.9	555.9
2.5°	566.4	564.4	561.1	557.3	552.6	547.4	542.8	540.2	539.0
5°	578.2	575.6	569.7	561.1	551.4	541.6	533.0	527.8	525.9
7.5°	585.4	581.4	573.0	559.9	544.8	530.4	518.0	510.8	508.8
10°	586.0	581.4	570.4	552.6	533.7	514.7	499.7	489.2	487.3
12.5°	586.6	580.8	567.1	546.1	522.6	499.0	480.7	468.3	465.0
15°	586.6	580.8	563.8	539.0	509.5	482.6	462.4	448.0	443.5
17.5°	581.4	574.9	554.7	525.9	493.8	463.7	440.2	425.2	420.5
20°	567.7	560.5	537.6	506.2	471.6	440.2	416.6	400.9	395.0
22.5°	548.1	539.5	515.4	481.4	446.7	414.7	391.8	375.4	370.2
25°	524.5	516.1	489.9	456.6	420.5	390.4	367.6	352.6	346.6
27.5°	495.7	486.6	461.1	427.8	394.4	364.3	343.3	329.7	323.8
30°	463.1	453.3	429.0	397.0	366.9	338.1	317.8	306.7	300.2
32.5°	425.2	416.6	395.0	366.2	338.1	310.7	293.6	283.8	278.6
35°	384.0	379.3	361.0	336.2	308.7	285.9	270.7	261.6	257.1
37.5°	347.3	342.8	327.1	306.1	281.9	260.9	248.5	240.7	236.7
40°	312.6	308.7	293.6	276.0	255.0	236.7	226.3	220.4	216.4
42.5°	278.6	276.6	264.2	247.9	229.5	213.8	205.4	200.7	197.6
45°	251.2	248.5	236.7	221.1	205.4	192.3	185.0	181.9	178.6
47.5°	226.9	223.7	211.2	197.6	183.1	171.4	164.8	161.6	160.2
50°	203.4	200.2	189.0	175.3	160.9	152.4	147.1	143.8	143.3
52.5°	182.4	179.2	166.8	153.7	142.6	135.4	130.8	127.6	126.2
55°	162.2	158.3	147.8	135.4	126.2	119.7	115.2	111.9	110.5
57.5°	143.8	140.0	130.8	119.0	110.5	104.7	100.7	97.4	96.2
60°	126.2	122.9	114.5	103.3	96.2	90.9	86.9	84.3	83.1
62.5°	109.9	107.3	98.8	89.0	83.1	78.5	75.2	72.6	73.9
65°	94.8	92.2	84.3	75.9	71.2	66.7	64.1	64.1	66.7
67.5°	80.5	77.8	71.2	64.1	60.2	56.9	55.0	56.9	58.8
70°	67.4	64.8	58.8	53.0	49.7	47.1	47.1	49.0	50.4
72.5°	55.0	52.3	47.8	43.1	40.5	38.6	40.5	41.9	43.1
75°	43.1	41.2	37.3	34.0	32.1	31.4	33.3	34.7	35.3
77.5°	32.1	30.7	28.1	25.5	24.2	24.8	26.9	27.4	28.1
80°	22.2	21.6	19.6	18.3	18.3	19.0	20.3	20.9	21.6
82.5°	13.8	13.8	12.4	11.7	12.4	13.8	14.3	15.0	15.0
85°	6.5	7.2	6.5	6.5	7.2	8.5	8.5	9.1	9.1
87.5°	1.9	1.9	2.6	2.6	3.3	3.3	3.3	3.3	3.9
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)