

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: P579697

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

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P579697
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-14)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC4W10D010BZ-HM40525827-41RWWC
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WALLWASH DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

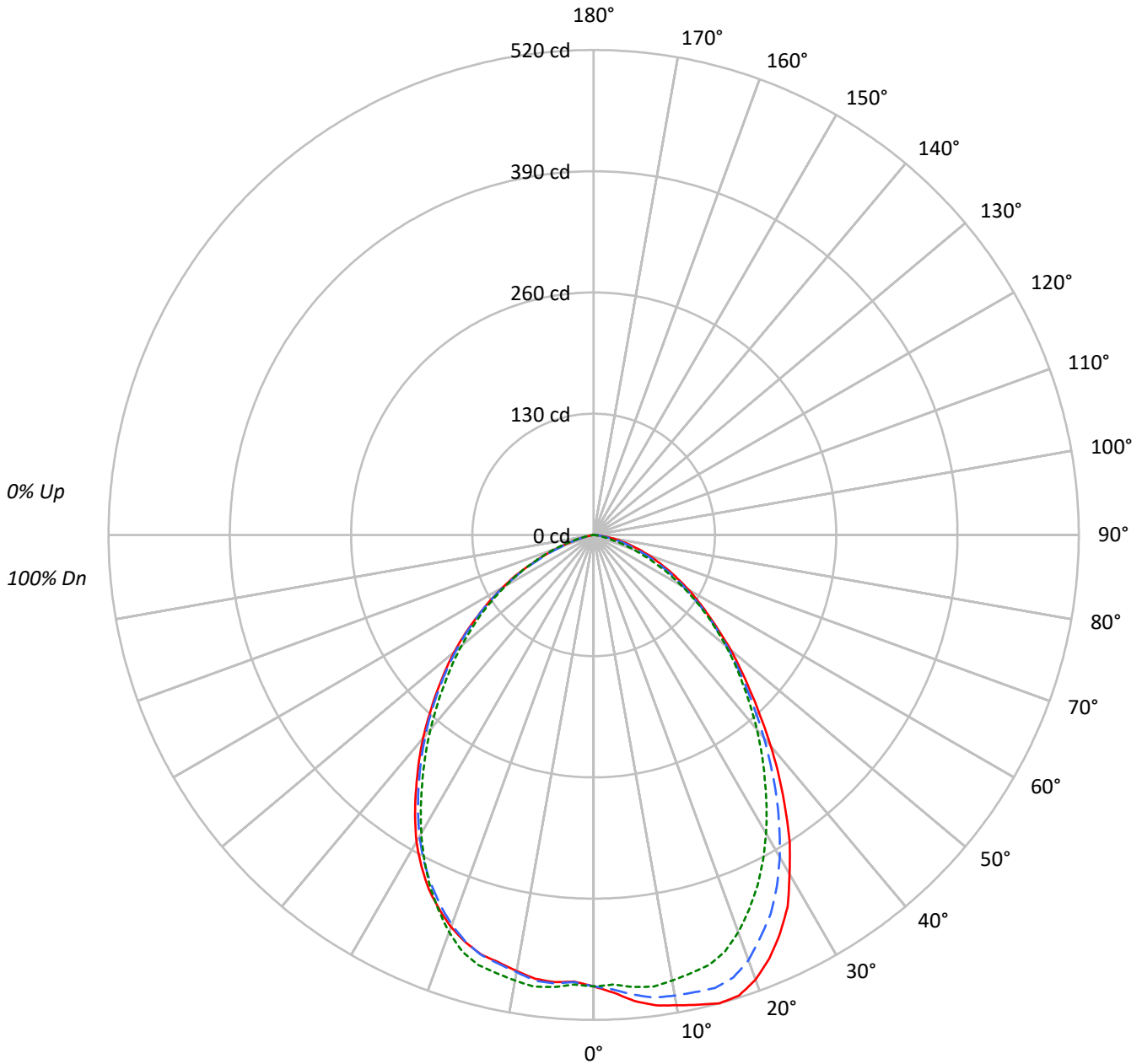
Lumens per Lamp: N/A
Luminaire Lumens: 1008.5 lumens
Efficiency: N/A
Efficacy: 101.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.15 / 1.21
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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: P579697
CATALOG NUMBER: HCC4W10D010BZ-HM40525827-41RWWC

Luminous Intensity Polar Plot



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



TEST NUMBER: P579697

CATALOG NUMBER: HCC4W10D010BZ-HM40525827-41RWWC

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	103	100	108	105	102	99	101	98	96	97	95	93	93	92	90	88								
2	102	95	90	85	100	94	88	84	90	86	82	87	83	80	84	81	78	76								
3	95	85	78	73	92	84	77	72	81	75	71	78	74	70	76	72	69	67								
4	87	77	69	63	85	76	68	63	73	67	62	71	66	61	69	64	60	58								
5	81	70	61	56	79	68	61	55	66	60	55	65	59	54	63	58	54	52								
6	75	63	55	49	74	62	55	49	61	54	49	59	53	48	58	52	48	46								
7	70	58	50	44	69	57	49	44	56	49	44	54	48	44	53	47	43	41								
8	66	53	45	40	64	53	45	40	51	44	40	50	44	39	49	43	39	37								
9	62	49	42	36	60	49	41	36	47	41	36	46	40	36	45	40	36	34								
10	58	46	38	33	57	45	38	33	44	38	33	43	37	33	42	37	33	31								

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	59699	59699	59699
5°	62107	60249	59605
10°	64140	60771	59468
15°	66402	60962	59468
20°	66602	59488	58713
25°	64265	56521	56970
30°	59791	52627	54122
35°	53861	48155	49931
40°	47500	43813	45809
45°	41533	39458	41411
50°	36766	35500	37400
55°	32343	31375	32623
60°	28888	26791	27605
65°	25363	21744	21393
70°	22179	16048	14606
75°	18396	9674	7816
80°	13922	3694	2344
85°	6510	991	991



TEST NUMBER: P579697
 CATALOG NUMBER: HCC4W10D010BZ-HM40525827-41RWWC

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.7	4.6
10°-20°	136.2	13.5
20°-30°	197.3	19.6
30°-40°	208.1	20.6
40°-50°	180.1	17.9
50°-60°	133.4	13.2
60°-70°	76.9	7.6
70°-80°	26.9	2.7
80°-90°	2.8	0.3
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°	380.2	37.7
0°-40°	588.3	58.3
0°-60°	901.9	89.4
0°-90°	1008.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1008.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	484	484	484	484	484	
5°	502	495	487	483	481	48
15°	520	503	477	466	466	146
25°	472	449	415	413	419	216
35°	358	341	320	327	332	223
45°	238	232	226	235	237	185
55°	150	147	146	151	152	136
65°	87	82	74	71	73	87
75°	39	33	20	16	16	42
85°	5	3	1	1	1	7
90°	0	0	0	0	0	



TEST NUMBER: P579697

CATALOG NUMBER: HCC4W10D010BZ-HM40525827-41RWWC

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	484.0	484.0	484.0	484.0	484.0	484.0	484.0	484.0	484.0
2.5°	491.2	489.8	487.9	485.2	482.6	480.7	480.0	479.3	479.3
5°	501.6	499.0	495.0	489.8	486.6	484.6	482.6	481.4	481.4
7.5°	508.8	506.2	500.3	493.1	488.5	484.6	481.9	480.0	480.0
10°	512.1	508.8	501.6	492.4	485.2	480.0	476.1	474.8	474.8
12.5°	516.0	512.1	502.2	490.5	481.4	474.8	470.9	469.5	469.5
15°	520.0	515.3	502.9	489.2	477.4	469.5	466.2	465.7	465.7
17.5°	517.9	512.1	497.6	481.4	468.3	460.4	457.1	457.1	457.8
20°	507.4	501.6	485.2	466.9	453.2	447.3	444.7	446.0	447.3
22.5°	491.8	484.6	466.9	449.3	434.9	429.7	429.7	431.6	433.6
25°	472.2	465.7	448.6	429.0	415.3	411.4	412.6	415.9	418.6
27.5°	450.0	442.8	425.0	406.7	393.1	391.1	394.3	399.0	400.2
30°	419.8	414.0	399.0	381.2	369.5	368.8	373.4	376.7	380.0
32.5°	391.1	384.5	370.2	353.1	344.7	345.3	350.5	354.5	356.4
35°	357.7	351.9	341.4	327.6	319.8	321.1	326.9	330.9	331.6
37.5°	326.4	322.4	311.9	301.5	295.7	298.3	303.4	308.1	308.1
40°	295.0	291.7	283.8	275.3	272.1	275.3	280.5	284.5	284.5
42.5°	264.8	262.9	256.4	250.5	248.5	253.1	257.6	260.9	260.3
45°	238.1	236.1	231.5	226.9	226.2	230.9	234.8	236.7	237.4
47.5°	213.8	212.6	208.6	205.3	205.3	210.0	213.1	215.2	215.8
50°	191.6	190.3	187.1	184.5	185.0	189.7	192.3	194.3	194.9
52.5°	169.3	168.8	166.1	162.8	164.8	168.1	171.4	172.6	173.3
55°	150.4	150.4	147.1	144.5	145.9	149.1	151.0	151.7	151.7
57.5°	133.4	132.8	128.8	126.2	126.9	130.2	131.4	132.1	132.1
60°	117.1	116.4	112.4	108.6	108.6	110.5	111.2	111.9	111.9
62.5°	101.4	100.7	96.2	92.9	91.6	90.9	90.9	92.2	94.8
65°	86.9	86.4	81.7	76.5	74.5	72.6	70.7	71.9	73.3
67.5°	73.9	72.6	68.1	63.4	58.8	55.5	52.3	54.3	56.9
70°	61.5	60.2	55.0	49.7	44.5	39.3	36.6	39.3	40.5
72.5°	49.7	48.4	43.1	37.9	31.4	26.2	25.5	26.2	26.9
75°	38.6	37.9	32.7	26.9	20.3	16.4	16.4	16.4	16.4
77.5°	28.8	27.4	22.2	17.0	11.7	9.1	8.5	8.5	8.5
80°	19.6	18.3	13.8	9.8	5.2	3.9	3.9	3.3	3.3
82.5°	11.2	10.5	7.2	3.9	1.9	1.3	1.3	1.3	1.3
85°	4.6	3.9	2.6	1.3	0.7	0.7	0.7	0.7	0.7
87.5°	0.7	0.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0
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)