

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: P579788

Luminaire Tested: **HCC4W10D010BZ-HM40525930-41RWWH**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P579788
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: HCC4W10D010BZ-HM40525930-41RWWH
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WALLWASH DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

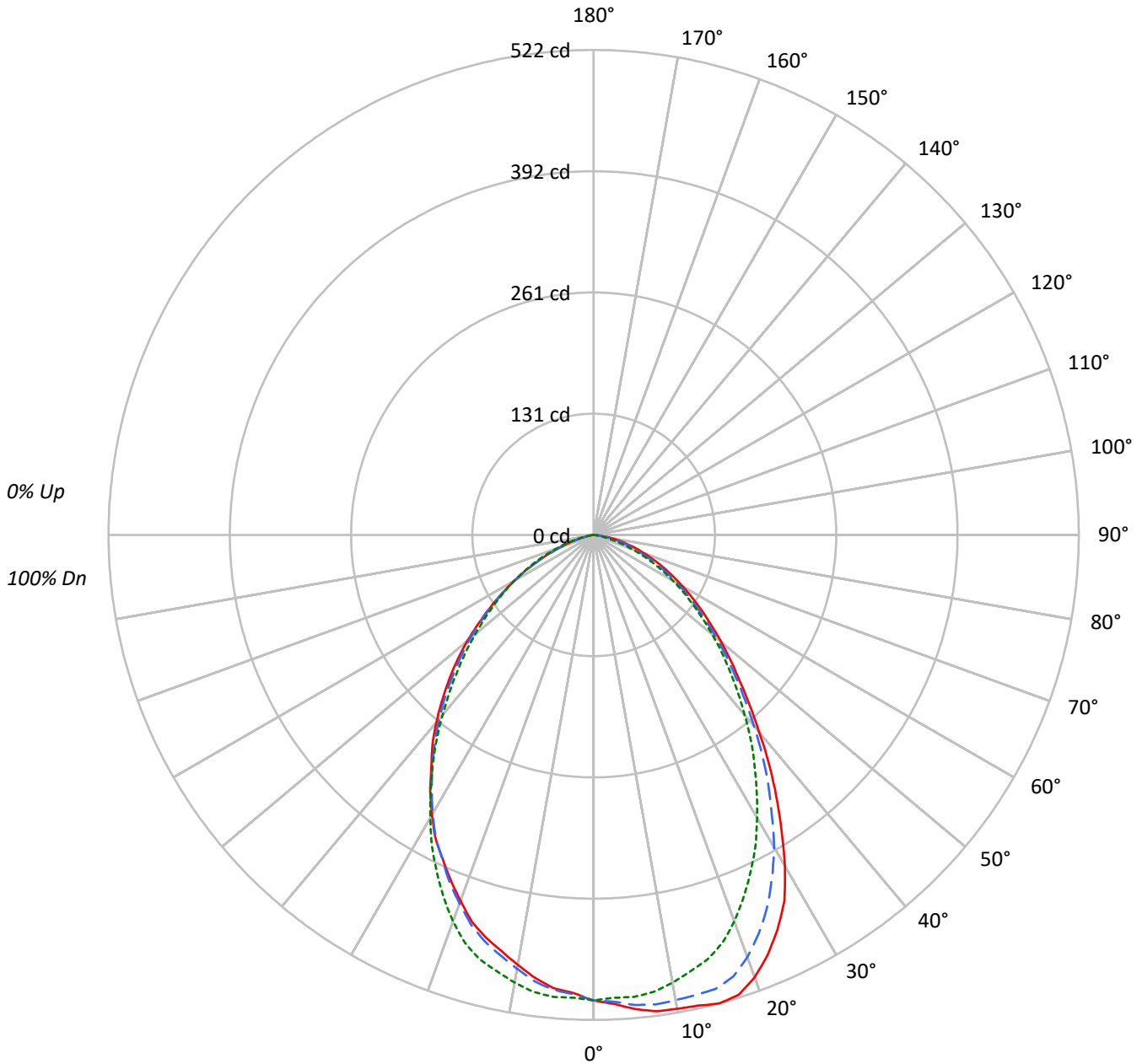
Lumens per Lamp: N/A
Luminaire Lumens: 954.9 lumens
Efficiency: N/A
Efficacy: 96.5 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.08 / 1.16
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (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: P579788
CATALOG NUMBER: HCC4W10D010BZ-HM40525930-41RWWH

Luminous Intensity Polar Plot



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



TEST NUMBER: P579788

CATALOG NUMBER: HCC4W10D010BZ-HM40525930-41RWWH

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	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	111	107	104	100	108	105	102	99	101	98	96	97	95	93	93	92	90	88					88			
2	103	96	90	85	100	94	89	84	90	86	82	87	84	80	84	81	79	77					77			
3	95	86	79	73	92	84	78	73	81	76	71	79	74	70	76	72	69	67					67			
4	88	77	70	64	86	76	69	63	74	67	62	71	66	62	69	65	61	59					59			
5	81	70	62	56	79	69	61	56	67	60	55	65	59	55	63	58	54	52					52			
6	76	64	56	50	74	63	55	50	61	54	49	60	54	49	58	53	49	47					47			
7	71	58	51	45	69	58	50	45	56	49	45	55	49	44	54	48	44	42					42			
8	66	54	46	41	65	53	46	41	52	45	40	51	45	40	50	44	40	38					38			
9	62	50	42	37	61	49	42	37	48	41	37	47	41	37	46	41	37	35					35			
10	58	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	32					32			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	61808	61808	61808
5°	63419	61797	60645
10°	64854	61272	58854
15°	66670	60401	57298
20°	66497	58083	54986
25°	63707	54384	52343
30°	58595	50077	49550
35°	51543	45444	45821
40°	44602	40673	42379
45°	38742	36143	38324
50°	34387	31873	34042
55°	30515	27978	29160
60°	27185	24250	24250
65°	24137	20168	18913
70°	20881	15255	13452
75°	17538	10103	8292
80°	13283	4830	4475
85°	7076	1840	1840



TEST NUMBER: P579788
 CATALOG NUMBER: HCC4W10D010BZ-HM40525930-41RWWH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.4	5.0
10°-20°	134.5	14.1
20°-30°	189.7	19.9
30°-40°	196.0	20.5
40°-50°	166.1	17.4
50°-60°	120.9	12.7
60°-70°	70.6	7.4
70°-80°	26.3	2.7
80°-90°	3.4	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°	371.7	38.9
0°-40°	567.6	59.4
0°-60°	854.6	89.5
0°-90°	954.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	954.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	501	501	501	501	501	
5°	512	508	499	492	490	49
15°	522	506	473	453	449	147
25°	468	442	400	385	385	214
35°	342	327	302	302	304	214
45°	222	216	207	215	220	173
55°	142	135	130	134	136	128
65°	83	76	69	65	65	82
75°	37	30	21	17	17	39
85°	5	3	1	1	1	7
90°	0	0	0	0	0	

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



TEST NUMBER: P579788

CATALOG NUMBER: HCC4W10D010BZ-HM40525930-41RWWH

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	501.1	501.1	501.1	501.1	501.1	501.1	501.1	501.1	501.1
2.5°	505.4	504.1	502.9	501.1	498.6	496.6	494.8	493.6	493.6
5°	512.2	510.4	507.9	503.5	499.1	495.4	491.6	489.8	489.8
7.5°	517.2	514.7	509.7	503.5	496.1	490.5	484.8	482.3	481.1
10°	517.8	515.3	508.5	499.1	489.2	480.5	474.2	470.6	469.9
12.5°	519.0	516.0	507.2	494.1	481.1	470.6	463.6	460.0	458.7
15°	522.1	517.8	506.0	489.2	473.0	460.5	453.0	450.0	448.7
17.5°	519.0	512.8	498.6	478.6	460.5	446.9	439.4	436.3	436.3
20°	506.6	500.4	483.5	461.8	442.5	429.5	422.0	420.1	418.9
22.5°	489.2	482.3	464.3	441.2	422.0	410.1	405.1	402.6	402.1
25°	468.1	461.2	441.9	418.2	399.6	389.7	385.2	385.2	384.6
27.5°	444.4	435.6	415.7	395.2	377.1	369.7	367.8	367.8	368.5
30°	411.4	405.1	388.4	368.5	351.6	346.6	346.6	347.9	347.9
32.5°	375.9	371.6	356.6	339.2	326.2	323.0	324.2	326.7	327.4
35°	342.3	337.3	327.4	311.8	301.8	300.7	302.5	304.3	304.3
37.5°	309.3	304.3	297.5	285.1	277.6	278.2	280.7	283.1	285.1
40°	277.0	273.2	268.2	258.3	252.6	255.1	258.3	260.7	263.2
42.5°	248.3	244.6	240.8	233.4	229.6	232.7	236.5	239.0	241.5
45°	222.1	219.7	216.0	209.7	207.2	210.4	214.7	217.2	219.7
47.5°	199.8	198.6	193.6	188.0	186.7	189.8	193.6	196.6	198.6
50°	179.2	177.4	173.0	167.4	166.1	171.2	173.7	175.5	177.4
52.5°	159.3	157.5	152.5	147.5	147.5	151.2	153.1	153.7	155.6
55°	141.9	140.1	135.1	131.3	130.1	133.1	134.4	134.4	135.6
57.5°	125.7	123.8	118.9	114.5	113.9	115.7	115.7	115.7	116.4
60°	110.2	108.3	103.3	99.6	98.3	99.0	98.3	97.8	98.3
62.5°	95.8	94.0	89.0	84.7	83.4	83.4	81.5	80.9	81.5
65°	82.7	79.7	75.9	71.6	69.1	67.3	64.8	64.8	64.8
67.5°	69.8	67.3	62.8	58.5	55.4	52.2	48.6	49.8	50.4
70°	57.9	56.0	51.0	46.7	42.3	38.6	35.5	36.8	37.3
72.5°	47.3	44.8	40.4	35.5	31.8	26.7	24.9	26.2	26.2
75°	36.8	34.3	30.5	25.5	21.2	16.8	16.8	17.4	17.4
77.5°	27.4	24.9	21.2	16.8	13.1	10.0	10.6	10.6	10.6
80°	18.7	16.8	13.7	10.0	6.8	5.6	5.6	5.6	6.3
82.5°	10.6	9.3	7.5	5.0	3.1	3.1	3.1	3.1	3.1
85°	5.0	3.8	3.1	1.8	1.3	1.3	1.3	1.3	1.3
87.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
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)