

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: P581115

Luminaire Tested: **HCC4S05D010BZ-HM40525940-41RWWH**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P581115
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: HCC4S05D010BZ-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

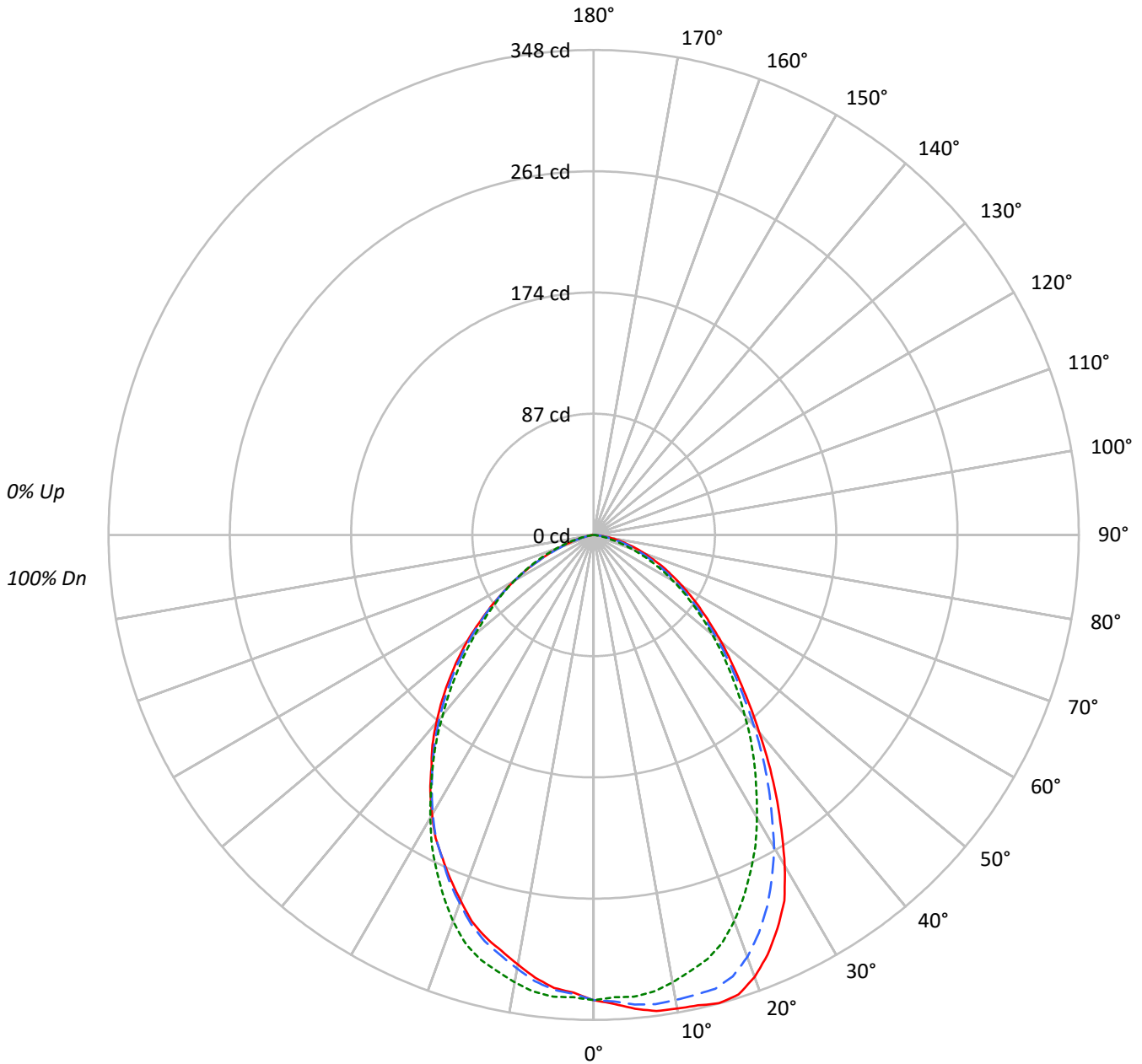
Lumens per Lamp: N/A
Luminaire Lumens: 636.2 lumens
Efficiency: N/A
Efficacy: 106.0 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.08 / 1.16
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 6
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: P581115
CATALOG NUMBER: HCC4S05D010BZ-HM40525940-41RWWH

Luminous Intensity Polar Plot





TEST NUMBER: P581115

CATALOG NUMBER: HCC4S05D010BZ-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	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°	41173	41173	41173
5°	42259	41181	40401
10°	43211	40831	39203
15°	44426	40250	38181
20°	44301	38709	36635
25°	42435	36243	34882
30°	39039	33371	33015
35°	34332	30281	30537
40°	29724	27099	28242
45°	25817	24090	25538
50°	22912	21242	22682
55°	20322	18645	19419
60°	18107	16158	16158
65°	16111	13455	12579
70°	13921	10134	8980
75°	11676	6720	5528
80°	8879	3196	2983
85°	4670	1132	1132



TEST NUMBER: P581115
 CATALOG NUMBER: HCC4S05D010BZ-HM40525940-41RWWH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	31.6	5.0
10°-20°	89.6	14.1
20°-30°	126.4	19.9
30°-40°	130.6	20.5
40°-50°	110.7	17.4
50°-60°	80.5	12.7
60°-70°	47.1	7.4
70°-80°	17.5	2.7
80°-90°	2.3	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°	247.6	38.9
0°-40°	378.2	59.4
0°-60°	569.4	89.5
0°-90°	636.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	636.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	334	334	334	334	334	
5°	341	338	333	328	326	33
15°	348	337	315	302	299	98
25°	312	294	266	257	256	143
35°	228	218	201	202	203	142
45°	148	144	138	143	146	115
55°	94	90	87	90	90	85
65°	55	51	46	43	43	55
75°	24	20	14	11	12	26
85°	3	2	1	1	1	5
90°	0	0	0	0	0	

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



TEST NUMBER: P581115

CATALOG NUMBER: HCC4S05D010BZ-HM40525940-41RWWH

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	333.8	333.8	333.8	333.8	333.8	333.8	333.8	333.8	333.8
2.5°	336.8	335.8	335.1	333.8	332.1	330.9	329.6	328.8	328.8
5°	341.3	340.0	338.3	335.5	332.6	330.1	327.6	326.3	326.3
7.5°	344.6	342.9	339.6	335.5	330.5	326.8	323.0	321.3	320.5
10°	345.0	343.3	338.8	332.6	326.0	320.1	316.0	313.5	313.0
12.5°	345.8	343.8	338.0	329.3	320.5	313.5	308.9	306.4	305.7
15°	347.9	345.0	337.1	326.0	315.2	306.9	301.9	299.8	299.0
17.5°	345.8	341.6	332.1	318.8	306.9	297.7	292.7	290.7	290.7
20°	337.5	333.3	322.2	307.7	294.9	286.1	281.1	279.9	279.1
22.5°	326.0	321.3	309.3	294.0	281.1	273.3	269.9	268.3	267.9
25°	311.8	307.2	294.4	278.6	266.3	259.6	256.6	256.6	256.3
27.5°	296.1	290.2	276.9	263.3	251.3	246.3	245.0	245.0	245.5
30°	274.1	269.9	258.8	245.5	234.3	231.0	231.0	231.8	231.8
32.5°	250.5	247.5	237.6	226.0	217.2	215.2	216.0	217.7	218.1
35°	228.0	224.7	218.1	207.7	201.1	200.3	201.6	202.8	202.8
37.5°	206.1	202.8	198.2	189.9	184.9	185.3	187.0	188.6	189.9
40°	184.6	182.1	178.8	172.1	168.3	170.0	172.1	173.8	175.4
42.5°	165.5	163.0	160.5	155.5	153.0	155.0	157.5	159.2	160.9
45°	148.0	146.4	143.9	139.7	138.1	140.2	143.0	144.7	146.4
47.5°	133.1	132.2	128.9	125.2	124.4	126.4	128.9	131.0	132.2
50°	119.4	118.2	115.3	111.6	110.7	114.1	115.7	116.9	118.2
52.5°	106.1	104.9	101.6	98.3	98.3	100.8	102.0	102.4	103.6
55°	94.5	93.3	90.0	87.5	86.7	88.8	89.6	89.6	90.3
57.5°	83.8	82.5	79.2	76.3	75.9	77.2	77.2	77.2	77.5
60°	73.4	72.2	68.8	66.4	65.5	65.9	65.5	65.1	65.5
62.5°	63.9	62.7	59.2	56.4	55.6	55.6	54.4	53.9	54.4
65°	55.2	53.1	50.6	47.7	46.1	44.8	43.1	43.1	43.1
67.5°	46.4	44.8	41.9	38.9	36.9	34.8	32.3	33.1	33.6
70°	38.6	37.3	34.0	31.1	28.1	25.8	23.6	24.5	24.9
72.5°	31.6	29.9	26.9	23.6	21.1	17.8	16.6	17.4	17.4
75°	24.5	22.8	20.3	17.0	14.1	11.2	11.2	11.6	11.6
77.5°	18.3	16.6	14.1	11.2	8.7	6.6	7.0	7.0	7.0
80°	12.5	11.2	9.1	6.6	4.5	3.7	3.7	3.7	4.2
82.5°	7.0	6.2	5.0	3.3	2.0	2.0	2.0	2.0	2.0
85°	3.3	2.5	2.0	1.2	0.8	0.8	0.8	0.8	0.8
87.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
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)