

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: P581493

Luminaire Tested: **HCC4S07D010BZ-HM40525927-41RWWH**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P581493
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: HCC4S07D010BZ-HM40525927-41RWWH
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WALLWASH DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

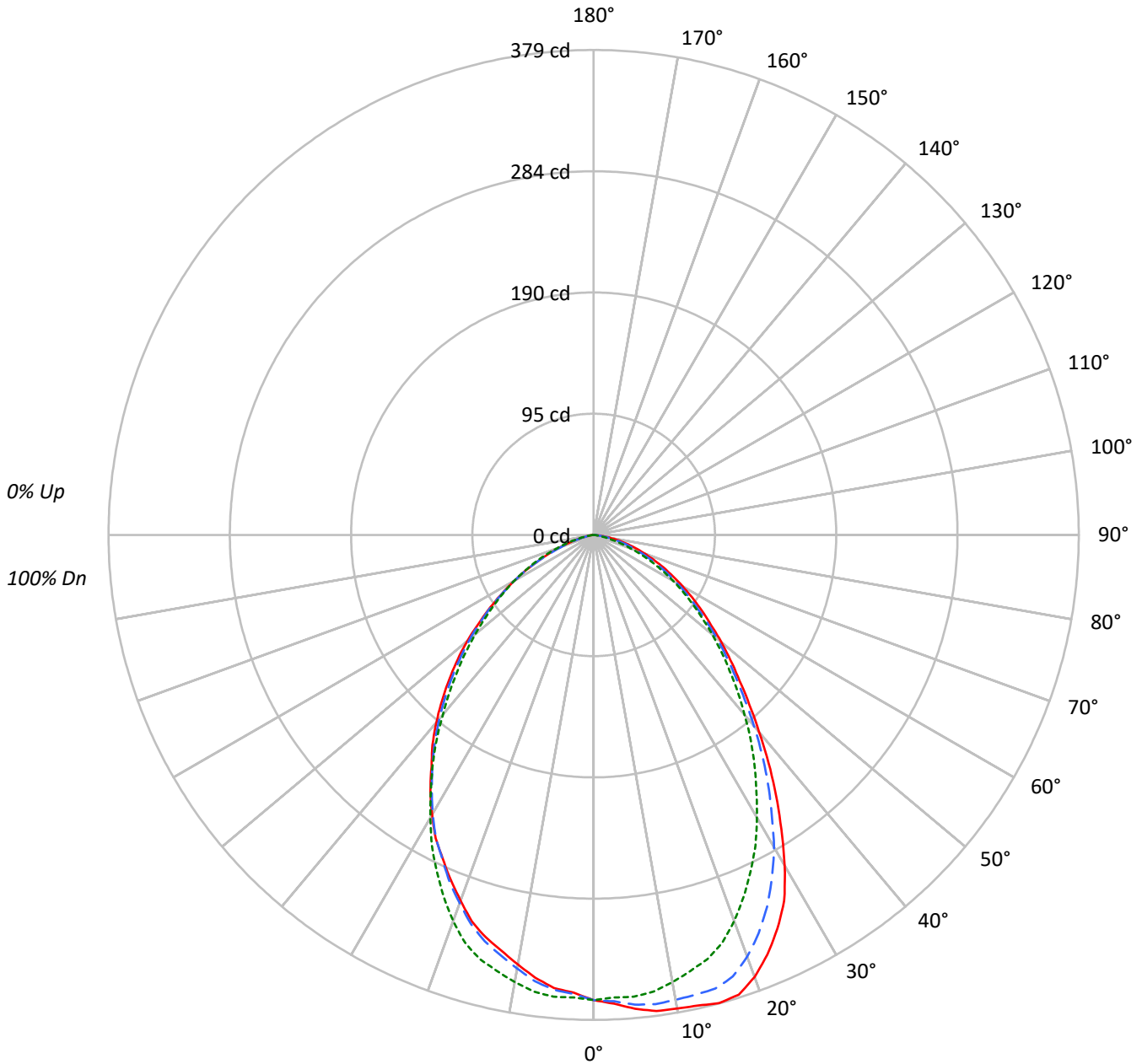
Lumens per Lamp: N/A
Luminaire Lumens: 692.9 lumens
Efficiency: N/A
Efficacy: 86.6 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.08 / 1.16
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 8
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: P581493
CATALOG NUMBER: HCC4S07D010BZ-HM40525927-41RWWH

Luminous Intensity Polar Plot



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



TEST NUMBER: P581493

CATALOG NUMBER: HCC4S07D010BZ-HM40525927-41RWWH

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°	44836	44836	44836
5°	46023	44846	44004
10°	47068	44451	42697
15°	48372	43826	41578
20°	48252	42135	39904
25°	46218	39468	37971
30°	42515	36333	35949
35°	37403	32991	33247
40°	32364	29514	30770
45°	28137	26218	27805
50°	24965	23142	24696
55°	22150	20279	21161
60°	19711	17614	17614
65°	17541	14622	13717
70°	15147	11072	9773
75°	12677	7339	6005
80°	9589	3552	3267
85°	5095	1274	1274



TEST NUMBER: P581493
 CATALOG NUMBER: HCC4S07D010BZ-HM40525927-41RWWH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	34.4	5.0
10°-20°	97.6	14.1
20°-30°	137.6	19.9
30°-40°	142.2	20.5
40°-50°	120.5	17.4
50°-60°	87.7	12.7
60°-70°	51.2	7.4
70°-80°	19.0	2.7
80°-90°	2.5	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°	269.7	38.9
0°-40°	411.9	59.4
0°-60°	620.1	89.5
0°-90°	692.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	692.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	364	364	364	364	364	
5°	372	368	362	357	355	36
15°	379	367	343	329	326	107
25°	340	321	290	280	279	155
35°	248	238	219	220	221	155
45°	161	157	150	156	159	125
55°	103	98	94	98	98	93
65°	60	55	50	47	47	60
75°	27	22	15	12	13	29
85°	4	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: P581493

CATALOG NUMBER: HCC4S07D010BZ-HM40525927-41RWWH

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	363.5	363.5	363.5	363.5	363.5	363.5	363.5	363.5	363.5
2.5°	366.7	365.8	364.8	363.5	361.8	360.4	359.0	358.1	358.1
5°	371.7	370.3	368.5	365.3	362.2	359.5	356.8	355.4	355.4
7.5°	375.3	373.5	369.8	365.3	359.9	355.9	351.8	349.9	349.0
10°	375.8	373.9	368.9	362.2	354.9	348.7	344.1	341.4	340.9
12.5°	376.7	374.4	368.0	358.6	349.0	341.4	336.4	333.8	332.9
15°	378.8	375.8	367.1	354.9	343.2	334.2	328.8	326.5	325.6
17.5°	376.7	372.1	361.8	347.3	334.2	324.2	318.9	316.6	316.6
20°	367.6	363.0	350.8	335.0	321.0	311.6	306.1	304.9	304.0
22.5°	354.9	349.9	336.8	320.2	306.1	297.6	293.9	292.1	291.8
25°	339.6	334.6	320.6	303.5	290.0	282.7	279.5	279.5	279.0
27.5°	322.4	316.1	301.7	286.8	273.7	268.2	266.9	266.9	267.3
30°	298.5	293.9	281.8	267.3	255.1	251.5	251.5	252.4	252.4
32.5°	272.8	269.6	258.8	246.1	236.6	234.4	235.2	237.0	237.5
35°	248.4	244.8	237.5	226.2	219.1	218.2	219.5	220.8	220.8
37.5°	224.4	220.8	215.9	206.8	201.4	201.9	203.7	205.5	206.8
40°	201.0	198.2	194.6	187.4	183.3	185.2	187.4	189.2	191.1
42.5°	180.1	177.5	174.8	169.3	166.6	168.9	171.6	173.4	175.3
45°	161.3	159.4	156.7	152.2	150.3	152.6	155.8	157.6	159.4
47.5°	145.0	144.1	140.4	136.3	135.4	137.7	140.4	142.7	144.1
50°	130.1	128.7	125.5	121.4	120.6	124.2	126.0	127.3	128.7
52.5°	115.6	114.3	110.6	107.0	107.0	109.7	111.1	111.5	112.9
55°	103.0	101.6	98.0	95.3	94.3	96.6	97.5	97.5	98.4
57.5°	91.3	89.9	86.3	83.1	82.6	84.0	84.0	84.0	84.4
60°	79.9	78.5	75.0	72.3	71.4	71.8	71.4	70.9	71.4
62.5°	69.5	68.2	64.5	61.5	60.5	60.5	59.2	58.7	59.2
65°	60.1	57.8	55.1	51.9	50.1	48.8	47.0	47.0	47.0
67.5°	50.5	48.8	45.6	42.4	40.2	37.9	35.3	36.1	36.5
70°	42.0	40.6	37.0	33.9	30.7	28.0	25.7	26.6	27.1
72.5°	34.4	32.5	29.4	25.7	23.0	19.5	18.1	19.0	19.0
75°	26.6	24.8	22.1	18.5	15.4	12.2	12.2	12.6	12.6
77.5°	19.9	18.1	15.4	12.2	9.4	7.2	7.6	7.6	7.6
80°	13.5	12.2	9.9	7.2	5.0	4.1	4.1	4.1	4.6
82.5°	7.6	6.8	5.5	3.6	2.3	2.3	2.3	2.3	2.3
85°	3.6	2.7	2.3	1.4	0.9	0.9	0.9	0.9	0.9
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)