

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: P581546

Luminaire Tested: **HCC4S07D010BZ-HM40525940-41RWWC**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P581546
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: HCC4S07D010BZ-HM40525940-41RWWC
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WALLWASH DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

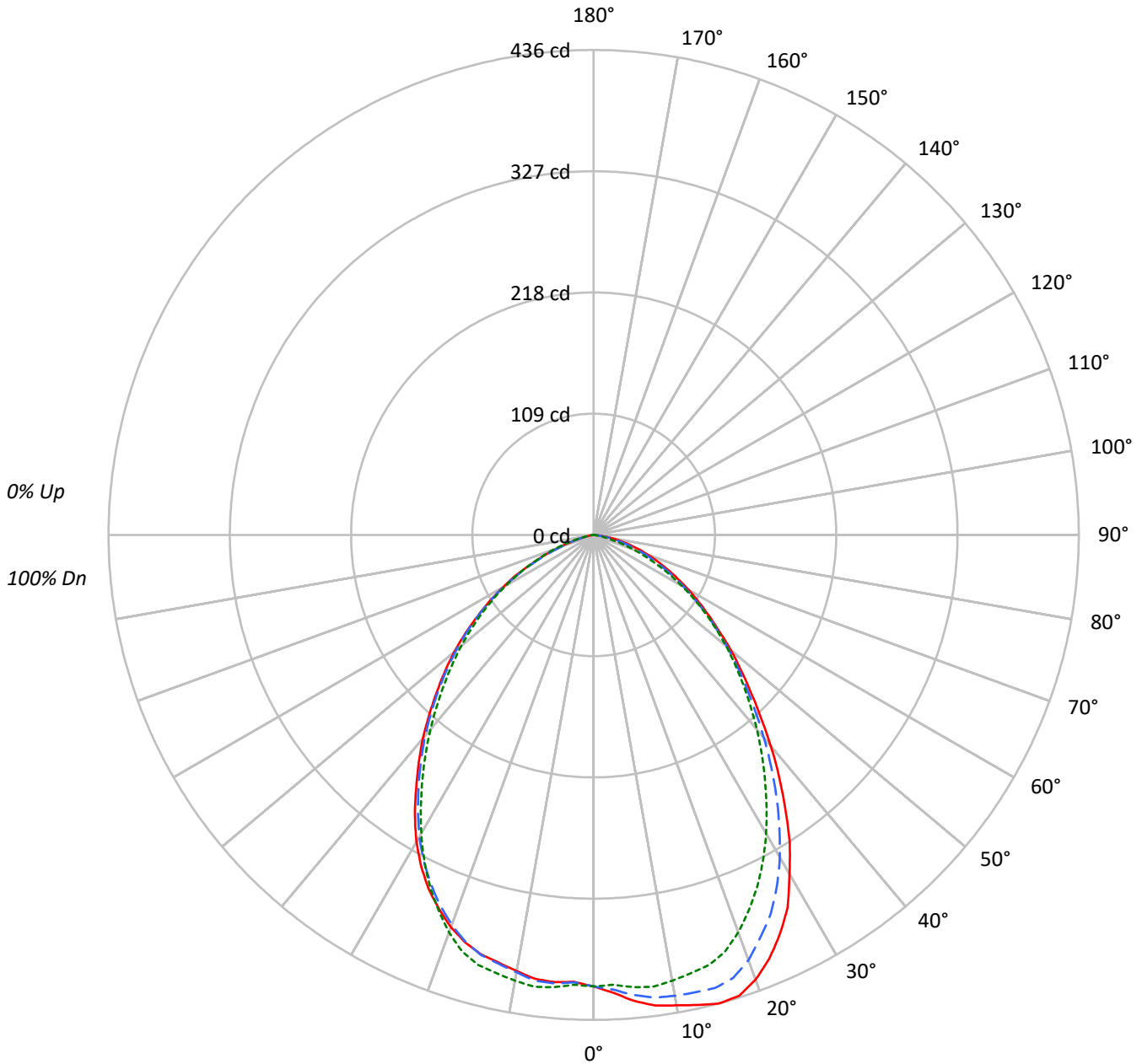
Lumens per Lamp: N/A
Luminaire Lumens: 845.8 lumens
Efficiency: N/A
Efficacy: 105.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.15 / 1.21
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 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: P581546
CATALOG NUMBER: HCC4S07D010BZ-HM40525940-41RWWC

Luminous Intensity Polar Plot





TEST NUMBER: P581546

CATALOG NUMBER: HCC4S07D010BZ-HM40525940-41RWWC

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	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°	50066	50066	50066
5°	52090	50530	49972
10°	53794	50964	49874
15°	55689	51117	49878
20°	55865	49893	49249
25°	53894	47403	47784
30°	50149	44138	45377
35°	45173	40385	41876
40°	39835	36744	38418
45°	34818	33108	34730
50°	30837	29782	31355
55°	27139	26300	27354
60°	24225	22449	23140
65°	21277	18241	17949
70°	18609	13452	12262
75°	15393	8102	6529
80°	11720	3125	1918
85°	5519	849	849



TEST NUMBER: P581546
 CATALOG NUMBER: HCC4S07D010BZ-HM40525940-41RWWC

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.1	4.6
10°-20°	114.2	13.5
20°-30°	165.5	19.6
30°-40°	174.6	20.6
40°-50°	151.1	17.9
50°-60°	111.9	13.2
60°-70°	64.5	7.6
70°-80°	22.5	2.7
80°-90°	2.4	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°	318.8	37.7
0°-40°	493.4	58.3
0°-60°	756.4	89.4
0°-90°	845.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	845.8	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	406	406	406	406	406	
5°	421	415	408	405	404	40
15°	436	422	400	391	391	123
25°	396	376	348	346	351	181
35°	300	286	268	274	278	187
45°	200	194	190	197	199	155
55°	126	123	122	127	127	114
65°	73	68	62	59	62	73
75°	32	27	17	14	14	35
85°	4	2	1	1	1	6
90°	0	0	0	0	0	

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



TEST NUMBER: P581546

CATALOG NUMBER: HCC4S07D010BZ-HM40525940-41RWWC

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	405.9	405.9	405.9	405.9	405.9	405.9	405.9	405.9	405.9
2.5°	412.0	410.8	409.2	406.9	404.8	403.2	402.6	402.1	402.1
5°	420.7	418.4	415.3	410.8	408.1	406.4	404.8	403.6	403.6
7.5°	426.7	424.5	419.6	413.5	409.7	406.4	404.2	402.6	402.6
10°	429.5	426.7	420.7	413.0	406.9	402.6	399.3	398.2	398.2
12.5°	432.8	429.5	421.3	411.4	403.6	398.2	394.9	393.9	393.9
15°	436.1	432.2	421.7	410.2	400.3	393.9	391.0	390.6	390.6
17.5°	434.4	429.5	417.4	403.6	392.7	386.1	383.4	383.4	384.0
20°	425.6	420.7	406.9	391.6	380.1	375.2	372.9	374.1	375.2
22.5°	412.4	406.4	391.6	376.8	364.7	360.4	360.4	362.0	363.6
25°	396.0	390.6	376.2	359.8	348.3	345.0	346.1	348.8	351.1
27.5°	377.4	371.3	356.5	341.2	329.7	328.0	330.7	334.6	335.7
30°	352.1	347.2	334.6	319.8	309.9	309.3	313.2	315.9	318.6
32.5°	328.0	322.5	310.4	296.2	289.1	289.6	293.9	297.2	299.0
35°	300.0	295.1	286.3	274.8	268.2	269.3	274.3	277.6	278.1
37.5°	273.7	270.4	261.6	252.9	248.0	250.1	254.5	258.3	258.3
40°	247.4	244.7	238.1	230.9	228.2	230.9	235.3	238.6	238.6
42.5°	222.1	220.5	215.0	210.1	208.5	212.2	216.1	218.8	218.3
45°	199.6	198.0	194.1	190.3	189.8	193.6	196.9	198.6	199.1
47.5°	179.3	178.2	175.0	172.2	172.2	176.0	178.8	180.5	181.1
50°	160.7	159.7	156.8	154.7	155.2	159.1	161.3	162.8	163.4
52.5°	142.0	141.5	139.3	136.6	138.3	141.0	143.7	144.8	145.3
55°	126.2	126.2	123.4	121.2	122.3	125.1	126.7	127.2	127.2
57.5°	111.9	111.3	108.0	105.8	106.4	109.1	110.3	110.8	110.8
60°	98.2	97.6	94.3	91.0	91.0	92.7	93.2	93.8	93.8
62.5°	85.0	84.4	80.7	77.8	76.8	76.2	76.2	77.4	79.5
65°	72.9	72.4	68.5	64.2	62.5	60.9	59.3	60.3	61.5
67.5°	62.0	60.9	57.0	53.3	49.4	46.7	43.9	45.5	47.7
70°	51.6	50.4	46.1	41.7	37.3	32.9	30.7	32.9	34.0
72.5°	41.7	40.6	36.2	31.9	26.3	22.0	21.4	22.0	22.5
75°	32.3	31.9	27.4	22.5	17.0	13.7	13.7	13.7	13.7
77.5°	24.1	23.0	18.7	14.2	9.9	7.6	7.2	7.2	7.2
80°	16.5	15.4	11.5	8.2	4.4	3.3	3.3	2.7	2.7
82.5°	9.3	8.8	6.0	3.3	1.6	1.1	1.1	1.1	1.1
85°	3.9	3.3	2.2	1.1	0.6	0.6	0.6	0.6	0.6
87.5°	0.6	0.6	0.6	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)