

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: P581545

Luminaire Tested: **HCC4S07D010BZ-HM40525950-41WDW**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P581545
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-9)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC4S07D010BZ-HM40525950-41WDW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

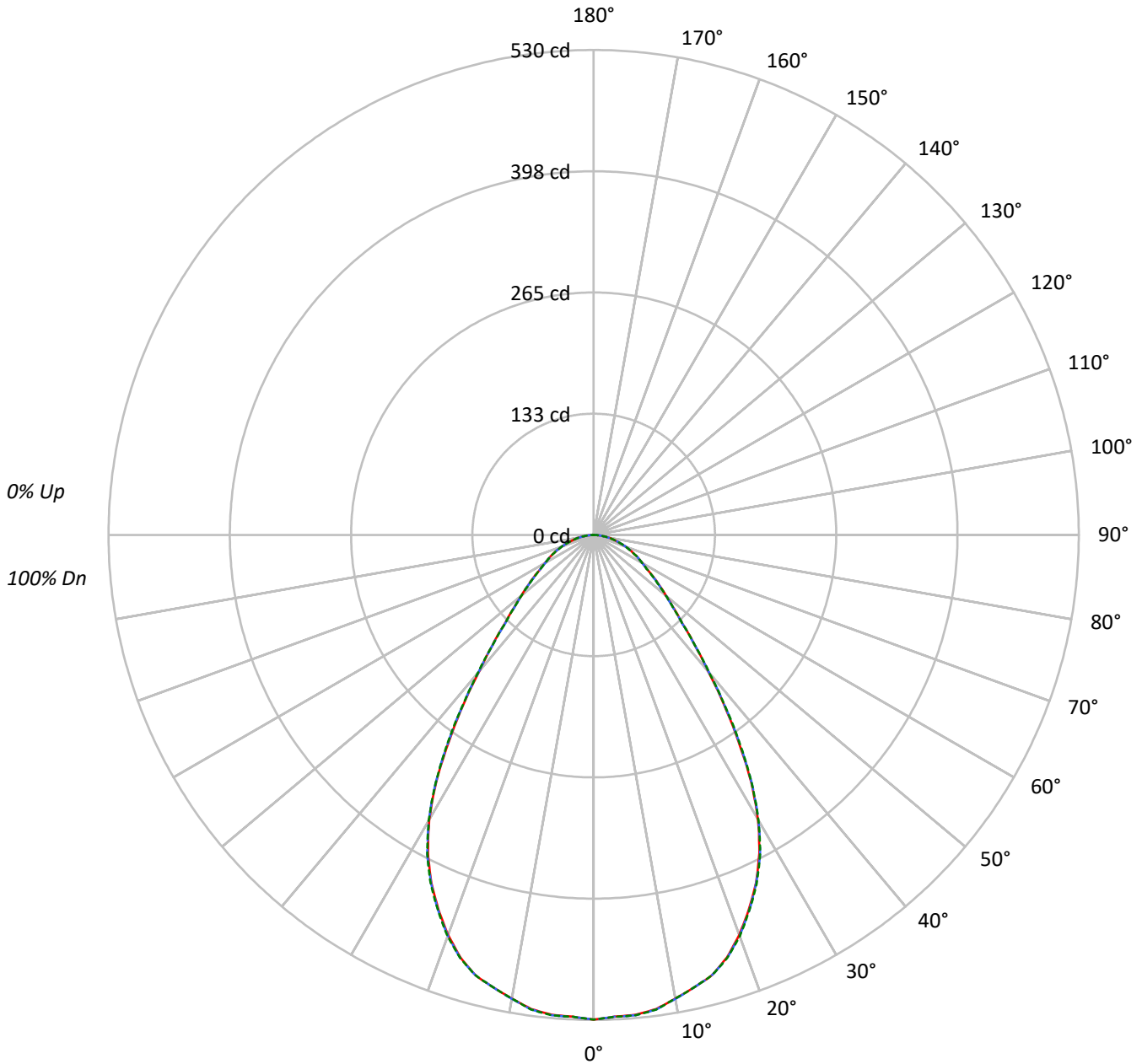
Lumens per Lamp: N/A
Luminaire Lumens: 817.3 lumens
Efficiency: N/A
Efficacy: 102.2 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.07 / 1.04
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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: P581545
CATALOG NUMBER: HCC4S07D010BZ-HM40525950-41WDW

Luminous Intensity Polar Plot





TEST NUMBER: P581545

CATALOG NUMBER: HCC4S07D010BZ-HM40525950-41WDW

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	104	101	108	105	102	99	101	98	96	97	95	93	94	92	90	89								
2	103	97	91	87	101	95	90	86	91	87	84	88	85	82	85	83	80	78								
3	96	87	81	76	94	86	80	75	83	78	74	81	76	72	78	74	71	69								
4	90	80	72	67	87	78	72	66	76	70	66	74	69	65	72	68	64	62								
5	84	73	65	60	82	72	65	59	70	64	59	68	63	58	66	62	58	56								
6	78	67	59	54	77	66	59	54	64	58	53	63	57	53	61	56	53	51								
7	73	62	54	49	72	61	54	49	60	53	49	58	53	48	57	52	48	46								
8	69	57	50	45	68	57	50	45	55	49	45	54	49	44	53	48	44	42								
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	45	41	39								
10	61	50	43	38	60	49	43	38	48	42	38	48	42	38	47	42	38	36								

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	65336	65336	65336
5°	65177	65251	65251
10°	64428	64490	64428
15°	63644	63644	63644
20°	61037	61181	61260
25°	57093	57161	57324
30°	51160	51317	51317
35°	41544	41860	41951
40°	31350	31511	31607
45°	24003	23915	23915
50°	19784	19669	19669
55°	16989	16860	16860
60°	15172	15023	15023
65°	14243	14243	14243
70°	13271	13271	13271
75°	12057	12248	12057
80°	11294	10939	11294
85°	9341	9341	9341



TEST NUMBER: P581545
 CATALOG NUMBER: HCC4S07D010BZ-HM40525950-41WDW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.9	6.1
10°-20°	139.7	17.1
20°-30°	191.9	23.5
30°-40°	172.6	21.1
40°-50°	109.0	13.3
50°-60°	71.2	8.7
60°-70°	48.3	5.9
70°-80°	27.1	3.3
80°-90°	7.6	0.9
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°	381.5	46.7
0°-40°	554.1	67.8
0°-60°	734.3	89.8
0°-90°	817.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	817.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	530	530	530	530	530	
5°	526	526	527	527	527	50
15°	498	498	498	498	498	140
25°	420	420	420	421	421	191
35°	276	277	278	279	279	172
45°	138	137	137	137	137	109
55°	79	79	78	79	78	71
65°	49	49	49	49	49	48
75°	25	26	26	26	25	27
85°	7	7	7	7	7	8
90°	0	0	0	0	0	



TEST NUMBER: P581545

CATALOG NUMBER: HCC4S07D010BZ-HM40525950-41WDW

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	529.7	529.7	529.7	529.7	529.7
2.5°	527.0	527.0	527.0	527.0	527.0
5°	526.4	526.4	527.0	527.0	527.0
7.5°	522.6	523.1	523.1	523.1	523.1
10°	514.4	514.4	514.9	514.9	514.4
12.5°	506.6	506.6	506.6	507.2	506.6
15°	498.4	498.4	498.4	498.4	498.4
17.5°	484.2	484.8	484.8	484.8	484.8
20°	465.0	466.1	466.1	466.7	466.7
22.5°	443.0	443.6	444.2	444.7	444.2
25°	419.5	420.0	420.0	421.2	421.2
27.5°	392.0	392.6	393.7	393.7	393.7
30°	359.2	359.7	360.3	360.3	360.3
32.5°	320.2	320.2	321.4	321.8	321.4
35°	275.9	276.9	278.0	279.2	278.6
37.5°	233.6	234.7	235.2	235.2	235.8
40°	194.7	195.7	195.7	196.9	196.3
42.5°	164.0	163.4	163.4	164.6	164.0
45°	137.6	137.1	137.1	137.1	137.1
47.5°	118.5	117.9	117.9	117.9	117.9
50°	103.1	102.5	102.5	102.5	102.5
52.5°	90.5	89.9	89.9	89.9	89.3
55°	79.0	79.0	78.4	79.0	78.4
57.5°	68.5	68.5	68.5	68.5	68.5
60°	61.5	60.9	60.9	60.9	60.9
62.5°	54.9	54.9	54.9	54.9	54.9
65°	48.8	48.8	48.8	48.8	48.8
67.5°	42.8	42.2	42.8	42.8	42.2
70°	36.8	36.2	36.8	36.8	36.8
72.5°	30.7	30.7	30.7	31.3	30.7
75°	25.3	25.7	25.7	25.7	25.3
77.5°	20.3	20.8	20.3	20.3	20.3
80°	15.9	15.4	15.4	15.4	15.9
82.5°	10.9	10.9	10.9	10.9	10.9
85°	6.6	6.6	6.6	6.6	6.6
87.5°	2.7	2.7	2.7	2.7	2.7
90°	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)