

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: P581455

Luminaire Tested: **HCC4S07D010BZ-HM40525835-41WDW**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P581455  
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-HM40525835-41WDW  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

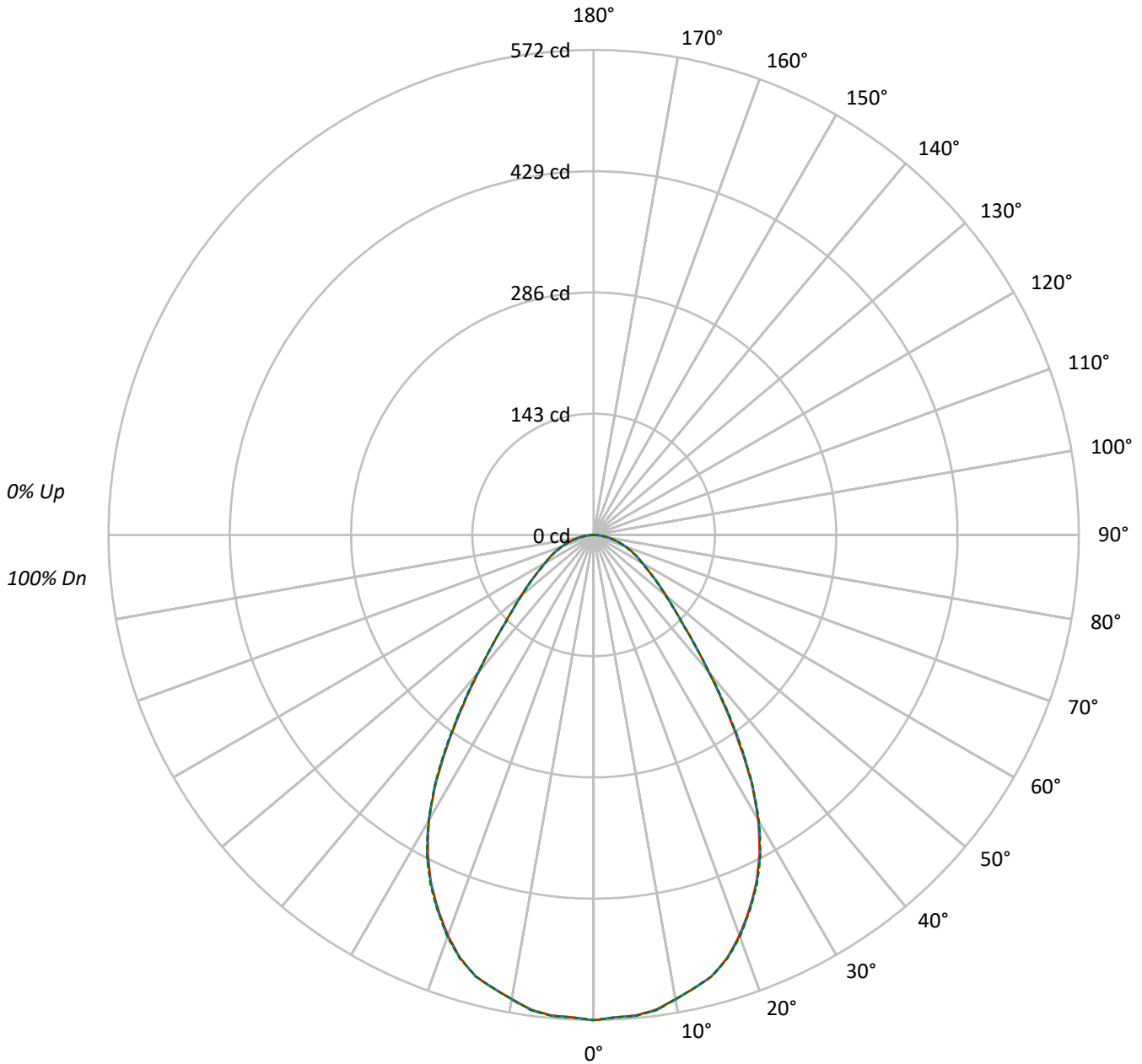
Lumens per Lamp: N/A  
Luminaire Lumens: 883.3 lumens  
Efficiency: N/A  
Efficacy: 110.4 lumens/watt  
Spacing Criteria (0/90/45): 1.06 / 1.07 / 1.04  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 8  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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: P581455  
CATALOG NUMBER: HCC4S07D010BZ-HM40525835-41WDW

### Luminous Intensity Polar Plot





TEST NUMBER: P581455

CATALOG NUMBER: HCC4S07D010BZ-HM40525835-41WDW

**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	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	67	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°	70603	70603	70603
5°	70439	70514	70514
10°	69613	69688	69613
15°	68777	68777	68777
20°	65959	66117	66182
25°	61693	61774	61938
30°	55290	55447	55447
35°	44872	45233	45324
40°	33878	34071	34152
45°	25939	25852	25852
50°	21377	21262	21262
55°	18365	18236	18236
60°	16356	16232	16232
65°	15381	15381	15381
70°	14317	14317	14317
75°	13010	13296	13010
80°	12217	11791	12217
85°	10048	10048	10048



TEST NUMBER: P581455  
 CATALOG NUMBER: HCC4S07D010BZ-HM40525835-41WDW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	53.9	6.1
10°-20°	150.9	17.1
20°-30°	207.4	23.5
30°-40°	186.5	21.1
40°-50°	117.9	13.3
50°-60°	77.0	8.7
60°-70°	52.1	5.9
70°-80°	29.4	3.3
80°-90°	8.2	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°	412.3	46.7
0°-40°	598.7	67.8
0°-60°	793.5	89.8
0°-90°	883.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	883.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	572	572	572	572	572	
5°	569	569	570	570	570	54
15°	539	539	539	539	539	151
25°	453	454	454	455	455	207
35°	298	299	300	302	301	186
45°	149	148	148	148	148	118
55°	85	85	85	85	85	77
65°	53	53	53	53	53	52
75°	27	28	28	28	27	29
85°	7	7	7	7	7	8
90°	0	0	0	0	0	



TEST NUMBER: P581455

CATALOG NUMBER: HCC4S07D010BZ-HM40525835-41WDW

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	572.4	572.4	572.4	572.4	572.4
2.5°	569.5	569.5	569.5	569.5	569.5
5°	568.9	568.9	569.5	569.5	569.5
7.5°	564.7	565.4	565.4	565.4	565.4
10°	555.8	555.8	556.4	556.4	555.8
12.5°	547.5	547.5	547.5	548.2	547.5
15°	538.6	538.6	538.6	538.6	538.6
17.5°	523.3	523.8	523.8	523.8	523.8
20°	502.5	503.7	503.7	504.2	504.2
22.5°	478.8	479.4	480.0	480.6	480.0
25°	453.3	453.9	453.9	455.1	455.1
27.5°	423.7	424.2	425.5	425.5	425.5
30°	388.2	388.7	389.3	389.3	389.3
32.5°	346.1	346.1	347.2	347.9	347.2
35°	298.0	299.3	300.4	301.6	301.0
37.5°	252.4	253.7	254.2	254.2	254.8
40°	210.4	211.6	211.6	212.7	212.1
42.5°	177.2	176.6	176.6	177.8	177.2
45°	148.7	148.2	148.2	148.2	148.2
47.5°	128.0	127.5	127.5	127.5	127.5
50°	111.4	110.8	110.8	110.8	110.8
52.5°	97.8	97.2	97.2	97.2	96.6
55°	85.4	85.4	84.8	85.4	84.8
57.5°	74.1	74.1	74.1	74.1	74.1
60°	66.3	65.8	65.8	65.8	65.8
62.5°	59.3	59.3	59.3	59.3	59.3
65°	52.7	52.7	52.7	52.7	52.7
67.5°	46.2	45.6	46.2	46.2	45.6
70°	39.7	39.1	39.7	39.7	39.7
72.5°	33.2	33.2	33.2	33.8	33.2
75°	27.3	27.9	27.9	27.9	27.3
77.5°	22.0	22.5	22.0	22.0	22.0
80°	17.2	16.6	16.6	16.6	17.2
82.5°	11.8	11.8	11.8	11.8	11.8
85°	7.1	7.1	7.1	7.1	7.1
87.5°	3.0	3.0	3.0	3.0	3.0
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)