

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: P581409

Luminaire Tested: **HCC4S07D010BZ-HM40525827-41MDH**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P581409
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-5)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC4S07D010BZ-HM40525827-41MDH
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" MEDIUM DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

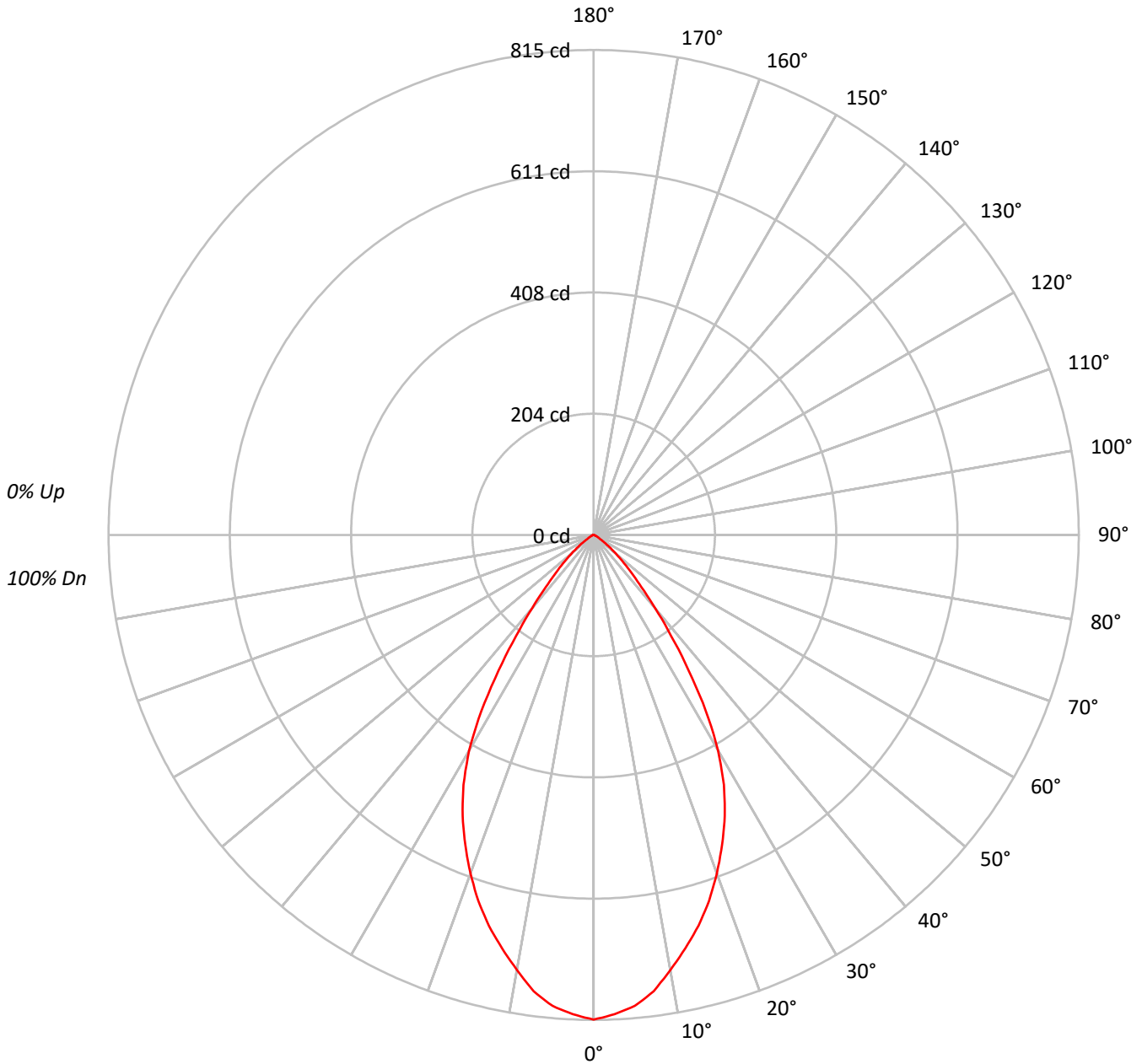
Lumens per Lamp: N/A
Luminaire Lumens: 776.2 lumens
Efficiency: N/A
Efficacy: 97.0 lumens/watt
Spacing Criteria (0/90/45): 0.9 / 0.9 / 0.91
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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: P581409
CATALOG NUMBER: HCC4S07D010BZ-HM40525827-41MDH

Luminous Intensity Polar Plot





TEST NUMBER: P581409

CATALOG NUMBER: HCC4S07D010BZ-HM40525827-41MDH

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	100	100	100
1	113	110	108	105	111	108	106	104	104	102	100	100	99	97	97	96	95	93	93	93	93
2	107	102	98	94	105	100	96	93	97	94	91	94	91	89	91	89	87	86	86	86	86
3	101	95	89	85	99	93	88	84	91	86	83	88	85	82	86	83	81	79	79	79	79
4	96	88	82	78	94	87	81	77	85	80	76	82	79	75	81	77	74	73	73	73	73
5	91	82	76	71	89	81	75	71	79	74	70	77	73	70	76	72	69	67	67	67	67
6	86	76	70	66	84	76	70	65	74	69	65	73	68	64	71	67	64	62	62	62	62
7	81	71	65	61	80	71	65	61	69	64	60	68	63	60	67	63	60	58	58	58	58
8	77	67	61	56	76	66	60	56	65	60	56	64	59	56	63	59	56	54	54	54	54
9	73	63	57	53	72	63	57	53	62	56	52	61	56	52	60	55	52	51	51	51	51
10	70	59	53	49	69	59	53	49	58	53	49	57	52	49	57	52	49	47	47	47	47

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	100477
5°	98385
10°	92959
15°	86834
20°	79413
25°	70920
30°	59549
35°	41891
40°	25843
45°	15473
50°	9134
55°	4559
60°	2368
65°	1518
70°	938
75°	763
80°	426
85°	849



TEST NUMBER: P581409
 CATALOG NUMBER: HCC4S07D010BZ-HM40525827-41MDH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.2	9.6
10°-20°	190.1	24.5
20°-30°	237.0	30.5
30°-40°	174.6	22.5
40°-50°	71.8	9.3
50°-60°	21.0	2.7
60°-70°	5.3	0.7
70°-80°	1.7	0.2
80°-90°	0.4	0.1
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°	501.3	64.6
0°-40°	675.9	87.1
0°-60°	768.7	99.0
0°-90°	776.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	776.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	815	
5°	795	74
15°	680	190
25°	521	237
35°	278	175
45°	89	72
55°	21	21
65°	5	5
75°	2	2
85°	1	0
90°	0	



TEST NUMBER: P581409

CATALOG NUMBER: HCC4S07D010BZ-HM40525827-41MDH

CANDELA DISTRIBUTION (FULL):

	0°
0°	814.6
2.5°	806.2
5°	794.6
7.5°	773.4
10°	742.2
12.5°	711.6
15°	680.0
17.5°	644.6
20°	605.0
22.5°	563.8
25°	521.1
27.5°	473.5
30°	418.1
32.5°	351.1
35°	278.2
37.5°	213.8
40°	160.5
42.5°	118.8
45°	88.7
47.5°	65.4
50°	47.6
52.5°	32.8
55°	21.2
57.5°	12.6
60°	9.6
62.5°	6.8
65°	5.2
67.5°	3.6
70°	2.6
72.5°	2.2
75°	1.6
77.5°	1.0
80°	0.6
82.5°	0.6
85°	0.6
87.5°	0.0
90°	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°

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)