

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: P581539

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

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P581539
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-4)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC4S07D010BZ-HM40525940-41MDC
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" MEDIUM DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

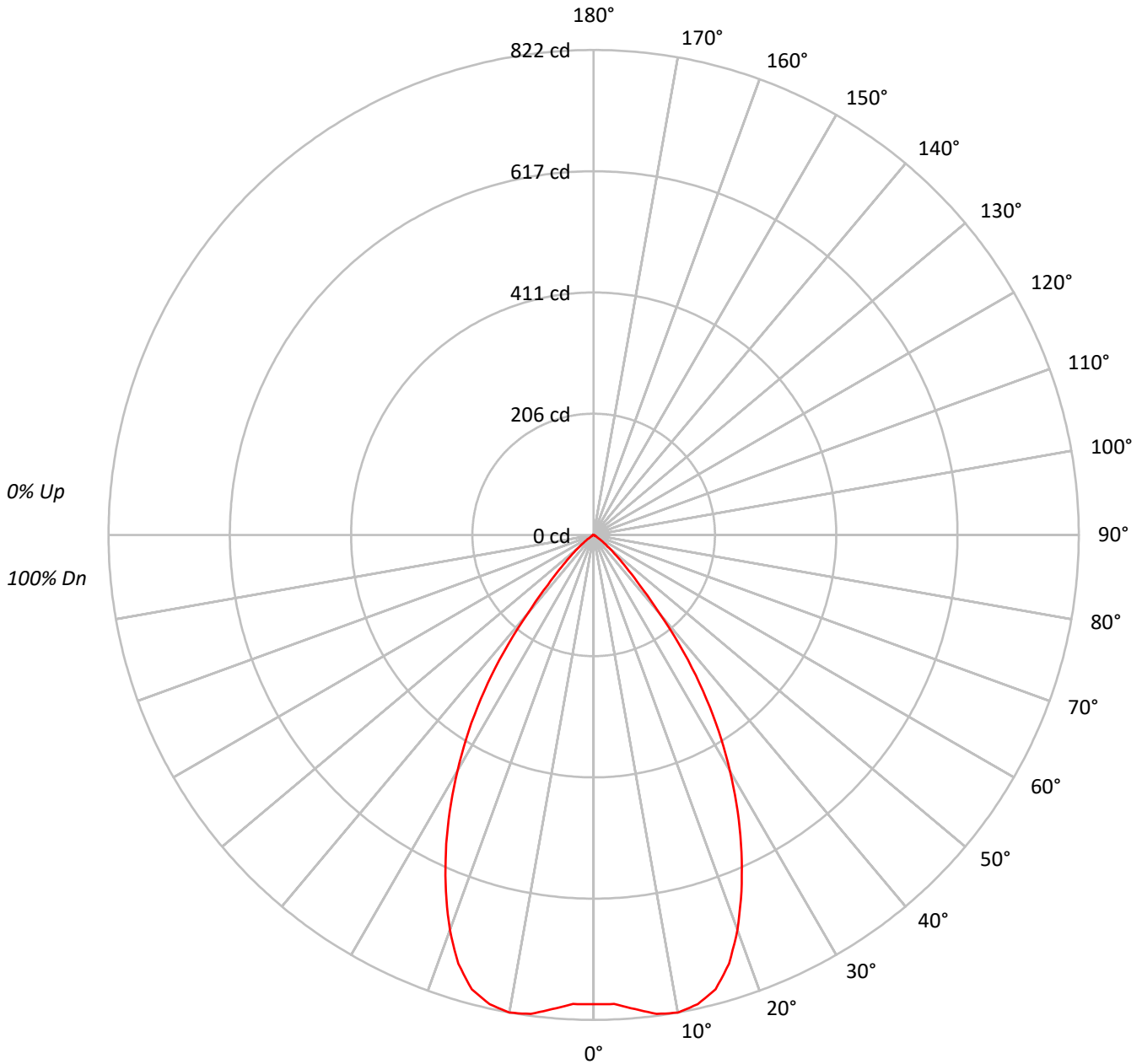
Lumens per Lamp: N/A
Luminaire Lumens: 847.0 lumens
Efficiency: N/A
Efficacy: 105.9 lumens/watt
Spacing Criteria (0/90/45): 1 / 1 / 0.96
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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: P581539
CATALOG NUMBER: HCC4S07D010BZ-HM40525940-41MDC

Luminous Intensity Polar Plot





TEST NUMBER: P581539

CATALOG NUMBER: HCC4S07D010BZ-HM40525940-41MDC

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	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	113	111	108	106	111	108	106	104	104	103	101		101	99	98		97	96	95	93
2	108	103	98	95	105	101	97	94	98	95	92		95	92	90		92	90	88	86
3	102	95	90	86	100	94	89	86	91	87	84		89	86	83		87	84	82	80
4	97	89	83	79	95	88	82	78	86	81	77		84	80	77		82	78	76	74
5	91	83	77	72	90	82	76	72	80	75	72		78	74	71		77	73	70	69
6	87	78	71	67	85	77	71	67	75	70	66		74	69	66		72	68	65	64
7	82	73	66	62	81	72	66	62	71	65	62		69	65	61		68	64	61	60
8	78	68	62	58	77	68	62	58	67	61	57		65	61	57		64	60	57	56
9	74	64	58	54	73	64	58	54	63	57	54		62	57	54		61	57	53	52
10	70	61	55	51	69	60	54	51	59	54	50		58	54	50		58	53	50	49

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	98084
5°	99895
10°	102979
15°	101838
20°	93511
25°	80678
30°	65744
35°	48682
40°	27920
45°	13501
50°	6428
55°	2258
60°	814
65°	467
70°	397
75°	286
80°	0
85°	0



TEST NUMBER: P581539
 CATALOG NUMBER: HCC4S07D010BZ-HM40525940-41MDC

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.6	9.2
10°-20°	221.1	26.1
20°-30°	270.0	31.9
30°-40°	198.5	23.4
40°-50°	65.8	7.8
50°-60°	11.6	1.4
60°-70°	1.7	0.2
70°-80°	0.6	0.1
80°-90°	0.0	0.0
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°	568.7	67.1
0°-40°	767.2	90.6
0°-60°	844.6	99.7
0°-90°	847.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	847.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	795	
5°	807	78
15°	798	221
25°	593	270
35°	323	198
45°	77	66
55°	10	12
65°	2	2
75°	1	1
85°	0	0
90°	0	



TEST NUMBER: P581539
CATALOG NUMBER: HCC4S07D010BZ-HM40525940-41MDC

CANDELA DISTRIBUTION (FULL):

	0°
0°	795.2
2.5°	795.8
5°	806.8
7.5°	818.9
10°	822.2
12.5°	814.5
15°	797.5
17.5°	762.3
20°	712.4
22.5°	654.2
25°	592.8
27.5°	528.6
30°	461.6
32.5°	394.7
35°	323.3
37.5°	250.8
40°	173.4
42.5°	114.7
45°	77.4
47.5°	51.6
50°	33.5
52.5°	19.8
55°	10.5
57.5°	4.4
60°	3.3
62.5°	2.2
65°	1.6
67.5°	1.1
70°	1.1
72.5°	0.6
75°	0.6
77.5°	0.6
80°	0.0
82.5°	0.0
85°	0.0
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)