

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: P581523

Luminaire Tested: **HCC4S07D010MW-HM40525935-41WDC**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P581523
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-7)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC4S07D010MW-HM40525935-41WDC
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

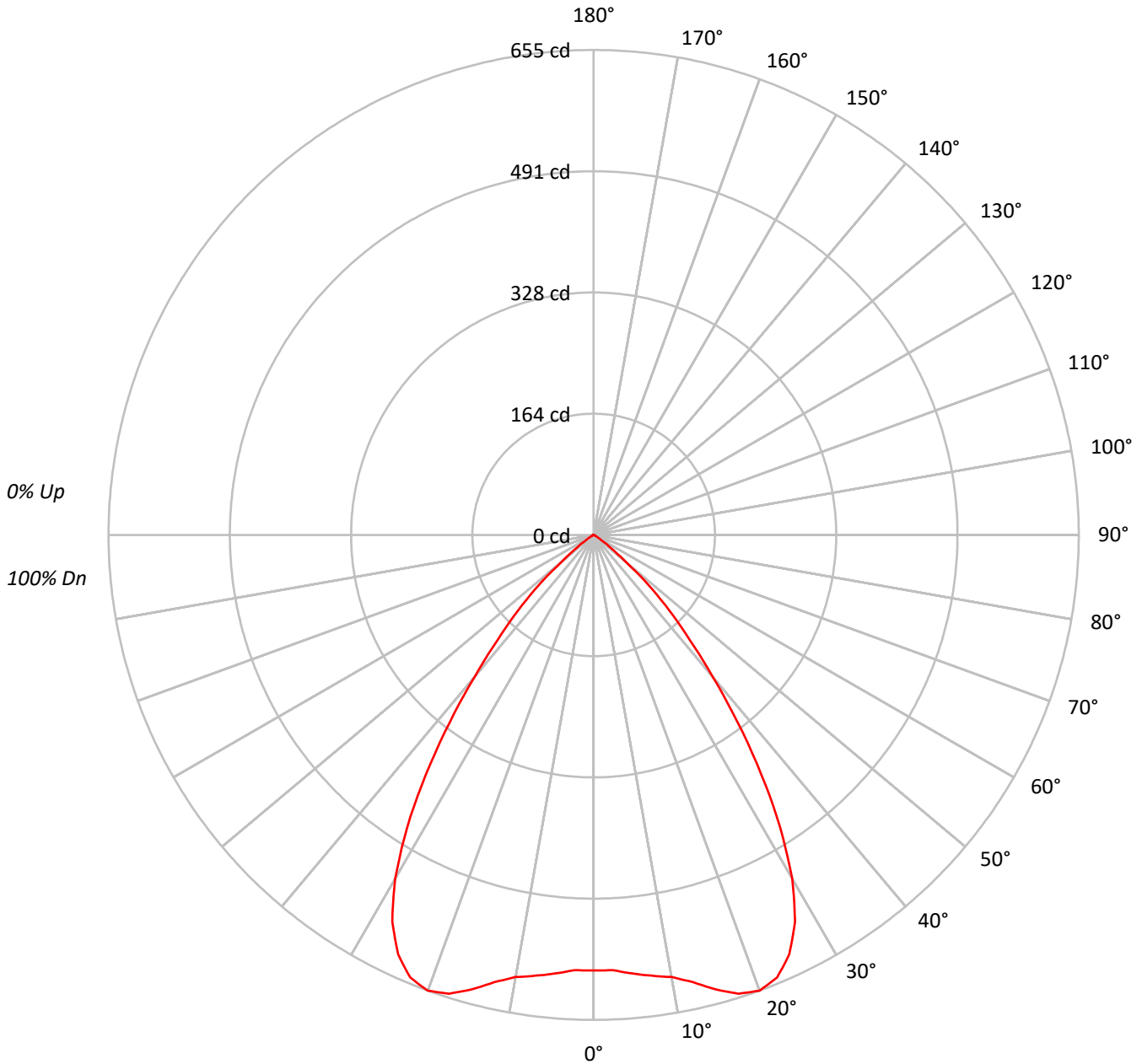
Lumens per Lamp: N/A
Luminaire Lumens: 898.4 lumens
Efficiency: N/A
Efficacy: 112.3 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.11
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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: P581523
CATALOG NUMBER: HCC4S07D010MW-HM40525935-41WDC

Luminous Intensity Polar Plot





TEST NUMBER: P581523
 CATALOG NUMBER: HCC4S07D010MW-HM40525935-41WDC

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
1	113	110	107	105	110	108	105	103	104	102	100	100	98	97	97	95	94	92			92
2	107	101	97	93	104	100	96	92	96	93	90	93	91	88	91	88	86	85			85
3	101	93	88	84	98	92	87	83	89	85	82	87	83	80	85	82	79	77			77
4	95	86	80	76	93	85	79	75	83	78	74	81	77	73	79	75	72	71			71
5	89	80	73	69	87	79	73	68	77	72	68	75	71	67	74	70	66	65			65
6	84	74	67	63	82	73	67	62	72	66	62	70	65	62	69	65	61	60			60
7	79	69	62	57	78	68	62	57	67	61	57	65	60	57	64	60	56	55			55
8	75	64	57	53	73	63	57	53	62	57	53	61	56	52	60	56	52	51			51
9	70	60	53	49	69	59	53	49	58	53	49	57	52	48	56	52	48	47			47
10	67	56	50	45	66	55	49	45	55	49	45	54	49	45	53	48	45	43			43

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	72564
5°	73634
10°	75938
15°	81151
20°	85976
25°	85047
30°	76327
35°	59403
40°	40238
45°	25136
50°	10880
55°	3656
60°	937
65°	642
70°	361
75°	286
80°	426
85°	0



TEST NUMBER: P581523
 CATALOG NUMBER: HCC4S07D010MW-HM40525935-41WDC

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.1	6.4
10°-20°	180.4	20.1
20°-30°	282.6	31.5
30°-40°	243.9	27.2
40°-50°	112.2	12.5
50°-60°	19.1	2.1
60°-70°	2.2	0.2
70°-80°	0.8	0.1
80°-90°	0.1	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°	520.2	57.9
0°-40°	764.1	85.0
0°-60°	895.4	99.7
0°-90°	898.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	898.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	588	
5°	595	57
15°	636	180
25°	625	283
35°	394	244
45°	144	112
55°	17	19
65°	2	2
75°	1	1
85°	0	0
90°	0	



TEST NUMBER: P581523
CATALOG NUMBER: HCC4S07D010MW-HM40525935-41WDC

CANDELA DISTRIBUTION (FULL):

	0°
0°	588.3
2.5°	588.3
5°	594.7
7.5°	600.5
10°	606.3
12.5°	618.5
15°	635.5
17.5°	649.8
20°	655.0
22.5°	647.1
25°	624.9
27.5°	588.9
30°	535.9
32.5°	469.2
35°	394.5
37.5°	319.3
40°	249.9
42.5°	191.2
45°	144.1
47.5°	101.2
50°	56.7
52.5°	31.3
55°	17.0
57.5°	8.4
60°	3.8
62.5°	2.6
65°	2.2
67.5°	1.6
70°	1.0
72.5°	1.0
75°	0.6
77.5°	0.6
80°	0.6
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)