

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: P581411

Luminaire Tested: **HCC4W07D010MW-HM40525827-41WDH**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P581411
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-8)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC4W07D010MW-HM40525827-41WDH
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

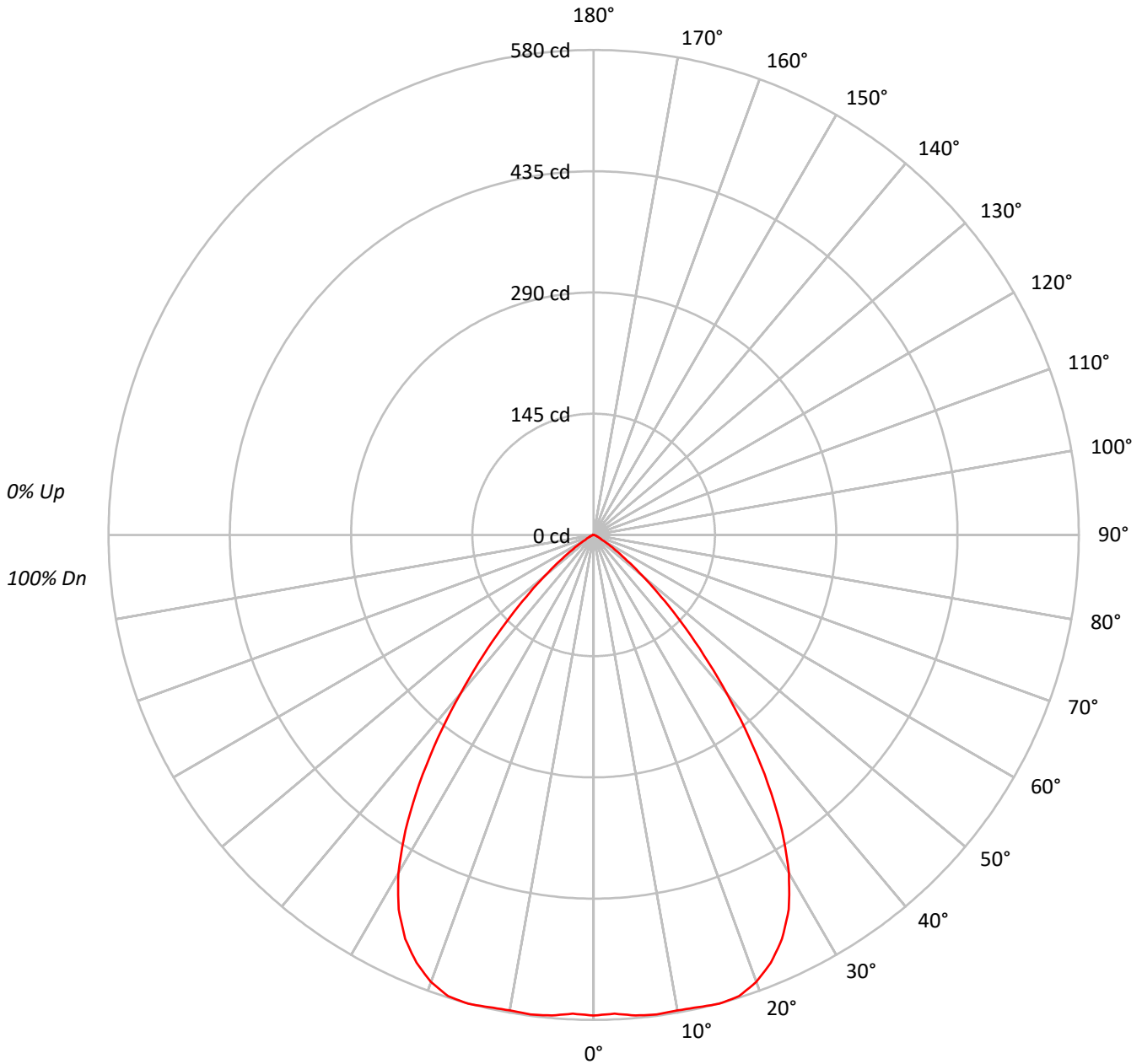
Lumens per Lamp: N/A
Luminaire Lumens: 843.2 lumens
Efficiency: N/A
Efficacy: 105.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.1
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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: P581411
CATALOG NUMBER: HCC4W07D010MW-HM40525827-41WDH

Luminous Intensity Polar Plot





TEST NUMBER: P581411

CATALOG NUMBER: HCC4W07D010MW-HM40525827-41WDH

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	110	107	104	110	108	105	103	103	101	100	100	98	97	96	95	94	92
2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	88	86	84
3	100	93	87	82	98	91	86	82	88	84	80	86	82	79	84	81	78	76
4	94	85	79	74	92	84	78	74	82	77	73	80	75	72	78	74	71	69
5	88	79	72	67	86	78	72	67	76	70	66	74	69	66	72	68	65	63
6	83	73	66	61	81	72	66	61	70	65	60	69	64	60	68	63	60	58
7	78	68	61	56	77	67	60	56	65	60	55	64	59	55	63	58	55	53
8	74	63	56	51	72	62	56	51	61	55	51	60	55	51	59	54	51	49
9	69	59	52	47	68	58	52	47	57	51	47	56	51	47	55	50	47	45
10	66	55	48	44	65	54	48	44	53	48	44	53	47	44	52	47	43	42

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	70887
5°	71430
10°	72318
15°	74128
20°	74675
25°	72540
30°	66499
35°	54735
40°	39884
45°	25886
50°	14584
55°	6924
60°	2714
65°	1693
70°	1154
75°	763
80°	426
85°	849



TEST NUMBER: P581411
 CATALOG NUMBER: HCC4W07D010MW-HM40525827-41WDH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.1	6.5
10°-20°	163.7	19.4
20°-30°	242.7	28.8
30°-40°	224.2	26.6
40°-50°	117.0	13.9
50°-60°	32.1	3.8
60°-70°	6.2	0.7
70°-80°	1.8	0.2
80°-90°	0.4	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°	461.5	54.7
0°-40°	685.7	81.3
0°-60°	834.8	99.0
0°-90°	843.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	843.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	575	
5°	577	55
15°	580	164
25°	533	243
35°	364	224
45°	148	117
55°	32	32
65°	6	6
75°	2	2
85°	1	0
90°	0	



TEST NUMBER: P581411
CATALOG NUMBER: HCC4W07D010MW-HM40525827-41WDH

CANDELA DISTRIBUTION (FULL):

	0°
0°	574.7
2.5°	573.1
5°	576.9
7.5°	578.4
10°	577.4
12.5°	578.4
15°	580.5
17.5°	578.4
20°	568.9
22.5°	553.6
25°	533.0
27.5°	505.0
30°	466.9
32.5°	418.9
35°	363.5
37.5°	305.3
40°	247.7
42.5°	194.9
45°	148.4
47.5°	108.8
50°	76.0
52.5°	50.8
55°	32.2
57.5°	19.0
60°	11.0
62.5°	8.0
65°	5.8
67.5°	4.2
70°	3.2
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)