

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: P579998

Luminaire Tested: **HCC4W20D010MW-HM40525830-41WDC**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P579998
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: HCC4W20D010MW-HM40525830-41WDC
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

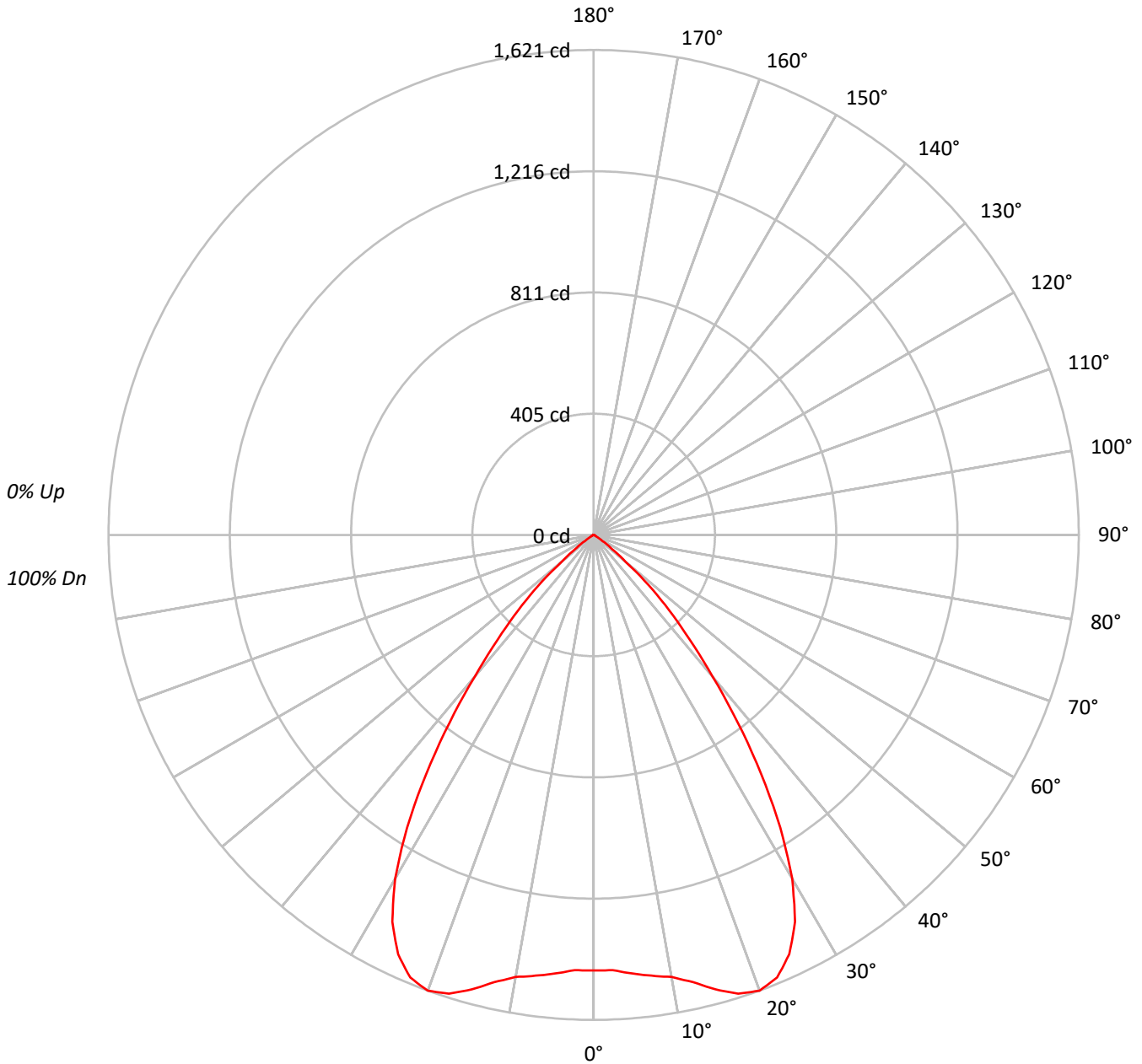
Lumens per Lamp: N/A
Luminaire Lumens: 2222.9 lumens
Efficiency: N/A
Efficacy: 111.1 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.11
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 20
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



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20		
RC	80				70				50				30				10		
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30
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°	179579
5°	182209
10°	187923
15°	200803
20°	212762
25°	210447
30°	188887
35°	146993
40°	99589
45°	62187
50°	26903
55°	9032
60°	2270
65°	1547
70°	938
75°	620
80°	923
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.4	6.4
10°-20°	446.4	20.1
20°-30°	699.4	31.5
30°-40°	603.6	27.2
40°-50°	277.6	12.5
50°-60°	47.2	2.1
60°-70°	5.3	0.2
70°-80°	1.9	0.1
80°-90°	0.2	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°	1287.1	57.9
0°-40°	1890.8	85.1
0°-60°	2215.5	99.7
0°-90°	2222.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2222.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1456	
5°	1472	141
15°	1572	446
25°	1546	699
35°	976	604
45°	356	278
55°	42	47
65°	5	5
75°	1	2
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1455.9
2.5°	1455.9
5°	1471.6
7.5°	1486.1
10°	1500.4
12.5°	1530.6
15°	1572.5
17.5°	1607.9
20°	1620.9
22.5°	1601.3
25°	1546.3
27.5°	1457.1
30°	1326.2
32.5°	1161.0
35°	976.2
37.5°	790.2
40°	618.5
42.5°	473.0
45°	356.5
47.5°	250.3
50°	140.2
52.5°	77.3
55°	42.0
57.5°	21.0
60°	9.2
62.5°	6.5
65°	5.3
67.5°	3.9
70°	2.6
72.5°	2.6
75°	1.3
77.5°	1.3
80°	1.3
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

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Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9

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— 0°-180°

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(END OF REPORT)