

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: P580094

Luminaire Tested: **HCC4W20D010MW-HM40525940-41WDWB**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P580094  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-10)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/9/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC4W20D010MW-HM40525940-41WDWB  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, WHITE BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

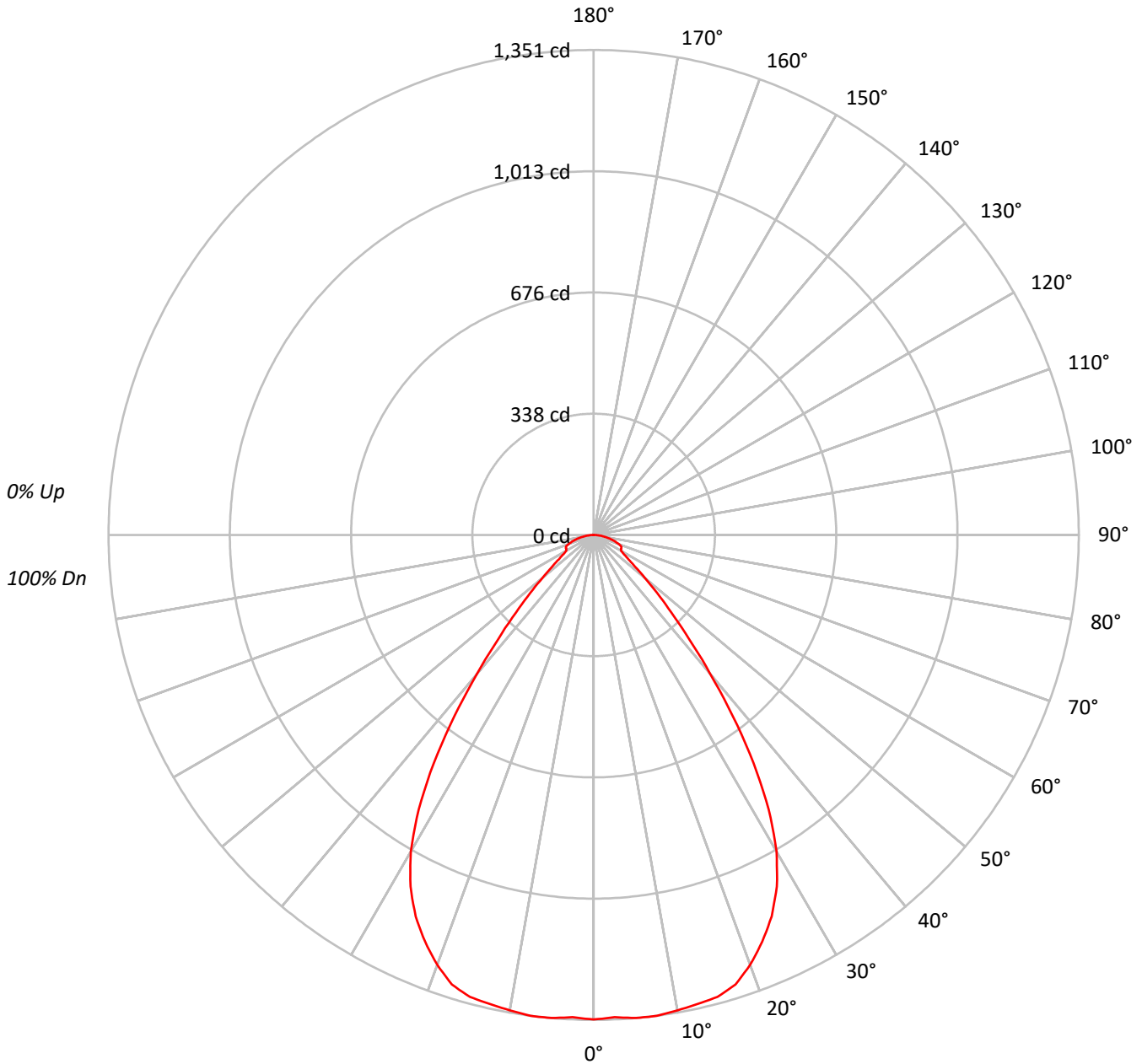
Lumens per Lamp: N/A  
Luminaire Lumens: 2027.9 lumens  
Efficiency: N/A  
Efficacy: 101.4 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.14 / 1.07  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 20  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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			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			
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90			
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	80			
3	98	89	83	78	95	88	82	78	85	80	76	83	78	75	80	77	74	72			
4	91	82	75	70	89	81	74	69	78	73	69	76	72	68	74	70	67	65			
5	86	75	68	63	84	74	68	63	72	67	62	71	65	61	69	64	61	59			
6	80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	59	56	54			
7	76	64	57	52	74	64	57	52	62	56	52	61	56	51	60	55	51	49			
8	71	60	53	48	70	59	53	48	58	52	48	57	51	47	56	51	47	46			
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42			
10	64	52	46	41	62	52	45	41	51	45	41	50	45	41	49	44	41	39			

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	166492
5°	167289
10°	168422
15°	170105
20°	167267
25°	159587
30°	144991
35°	116938
40°	81152
45°	53256
50°	35692
55°	25397
60°	21709
65°	24954
70°	26723
75°	25735
80°	23227
85°	21228



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	128.8	6.3
10°-20°	374.2	18.5
20°-30°	534.7	26.4
30°-40°	477.6	23.6
40°-50°	245.0	12.1
50°-60°	111.4	5.5
60°-70°	83.1	4.1
70°-80°	56.5	2.8
80°-90°	16.7	0.8
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°	1037.7	51.2
0°-40°	1515.3	74.7
0°-60°	1871.6	92.3
0°-90°	2027.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2027.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1350	
5°	1351	129
15°	1332	374
25°	1173	535
35°	777	478
45°	305	245
55°	118	111
65°	86	83
75°	54	57
85°	15	17
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1349.8
2.5°	1344.7
5°	1351.1
7.5°	1351.1
10°	1344.7
12.5°	1338.4
15°	1332.1
17.5°	1313.3
20°	1274.3
22.5°	1226.6
25°	1172.6
27.5°	1104.7
30°	1018.0
32.5°	907.4
35°	776.6
37.5°	637.2
40°	504.0
42.5°	393.3
45°	305.3
47.5°	238.8
50°	186.0
52.5°	145.8
55°	118.1
57.5°	99.3
60°	88.0
62.5°	85.5
65°	85.5
67.5°	82.9
70°	74.1
72.5°	64.1
75°	54.0
77.5°	42.8
80°	32.7
82.5°	23.9
85°	15.0
87.5°	6.3
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)