

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: P580081

Luminaire Tested: **HCC4S20D010MW-HM40525935-41MDC**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P580081  
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: HCC4S20D010MW-HM40525935-41MDC  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" MEDIUM DISTRIBUTION, SPECULAR TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

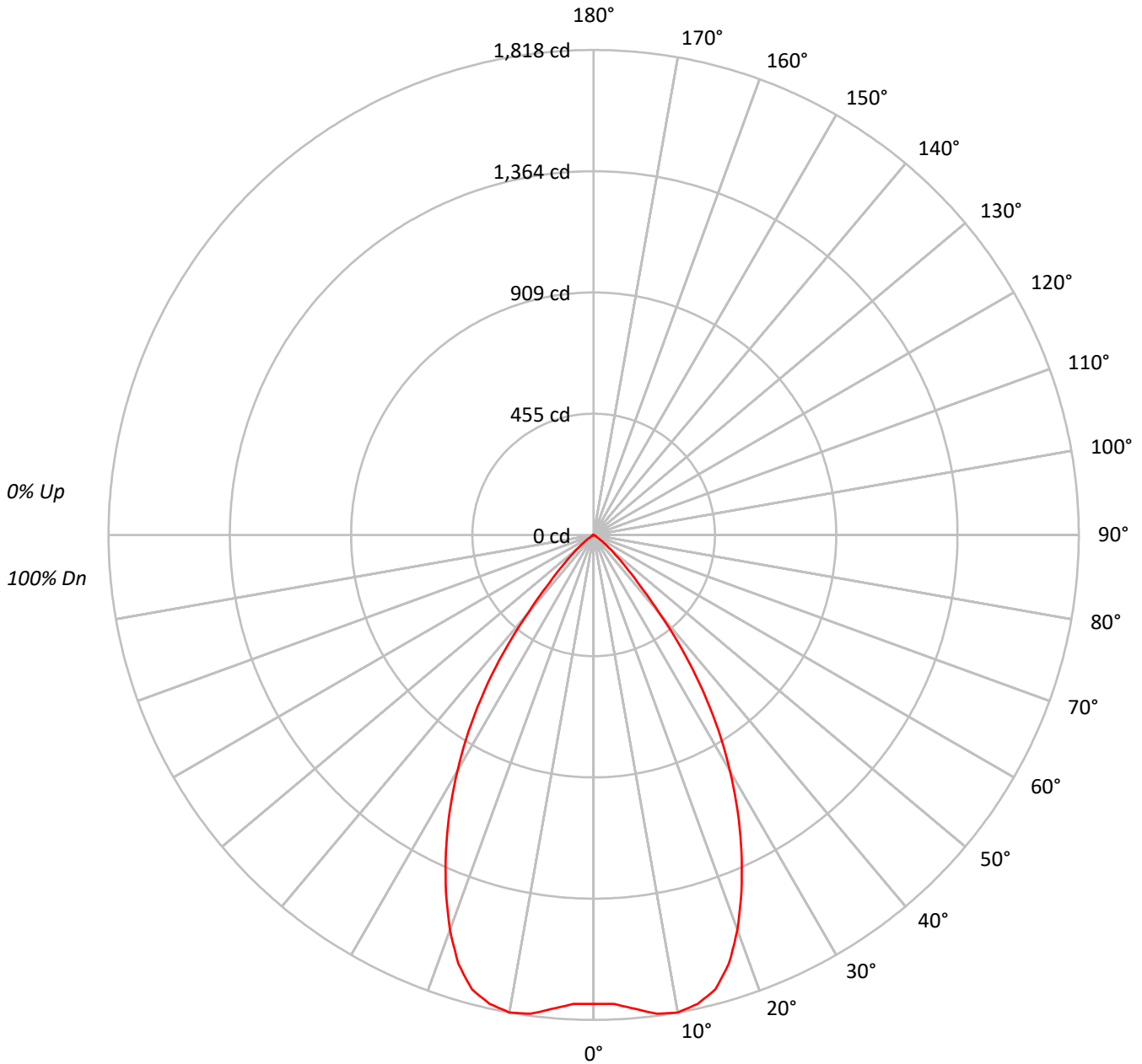
Lumens per Lamp: N/A  
Luminaire Lumens: 1872.3 lumens  
Efficiency: N/A  
Efficacy: 93.6 lumens/watt  
Spacing Criteria (0/90/45): 1 / 1 / 0.96  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 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
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°	216854
5°	220840
10°	227664
15°	225142
20°	206724
25°	178341
30°	145347
35°	107618
40°	61734
45°	29846
50°	14200
55°	4968
60°	1776
65°	1080
70°	866
75°	620
80°	0
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	171.6	9.2
10°-20°	488.8	26.1
20°-30°	596.9	31.9
30°-40°	438.8	23.4
40°-50°	145.4	7.8
50°-60°	25.7	1.4
60°-70°	3.9	0.2
70°-80°	1.3	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°	1257.2	67.1
0°-40°	1696.0	90.6
0°-60°	1867.1	99.7
0°-90°	1872.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1872.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1758	
5°	1784	172
15°	1763	489
25°	1310	597
35°	715	439
45°	171	145
55°	23	26
65°	4	4
75°	1	1
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1758.1
2.5°	1759.4
5°	1783.6
7.5°	1810.3
10°	1817.7
12.5°	1800.7
15°	1763.1
17.5°	1685.4
20°	1574.9
22.5°	1446.4
25°	1310.4
27.5°	1168.4
30°	1020.5
32.5°	872.4
35°	714.7
37.5°	554.5
40°	383.4
42.5°	253.6
45°	171.1
47.5°	114.0
50°	74.0
52.5°	43.7
55°	23.1
57.5°	9.7
60°	7.2
62.5°	4.8
65°	3.7
67.5°	2.4
70°	2.4
72.5°	1.3
75°	1.3
77.5°	1.3
80°	0.0
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)