

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: P580064

Luminaire Tested: **HCC4W20D010SL-HM40525930-41NDC**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P580064  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-1)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/9/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC4W20D010SL-HM40525930-41NDC  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" NARROW DISTRIBUTION, SPECULAR TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

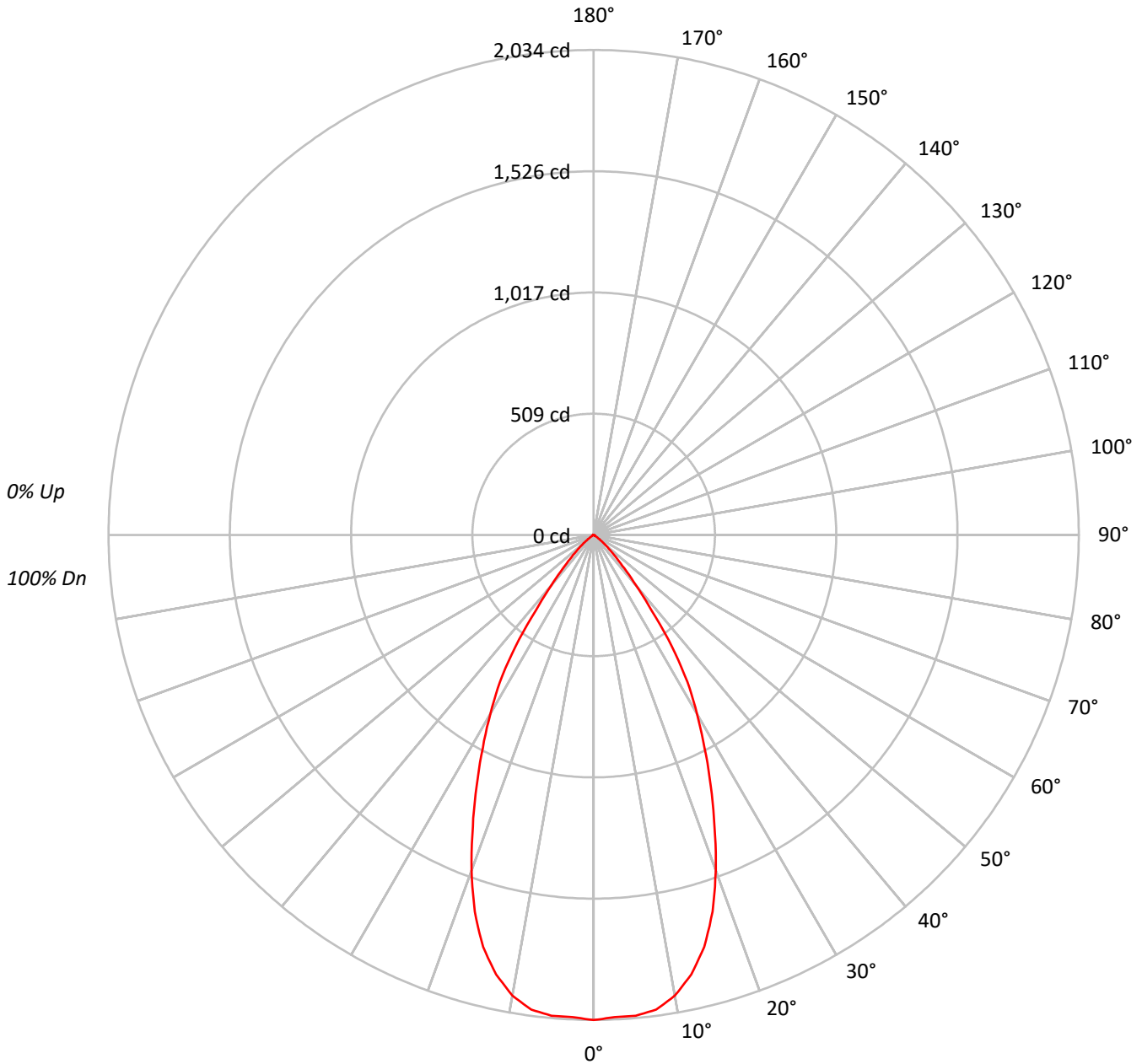
Lumens per Lamp: N/A  
Luminaire Lumens: 1703.6 lumens  
Efficiency: N/A  
Efficacy: 85.2 lumens/watt  
Spacing Criteria (0/90/45): 0.84 / 0.84 / 0.85  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

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									
RC	80									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	114	111	108	106	111	109	106	104	105	103	101	101	100	98	97	96	95	94																			
2	108	103	99	96	106	101	98	95	98	95	93	95	93	91	93	91	89	87																			
3	103	96	91	87	101	95	90	87	92	88	85	90	87	84	88	85	83	81																			
4	97	90	85	80	96	89	84	80	87	82	79	85	81	78	83	80	77	76																			
5	93	84	79	74	91	83	78	74	82	77	73	80	76	73	78	75	72	71																			
6	88	79	73	69	87	78	73	69	77	72	68	76	71	68	74	70	67	66																			
7	84	75	69	64	82	74	68	64	73	68	64	71	67	64	70	66	63	62																			
8	80	70	64	60	78	70	64	60	69	64	60	68	63	60	67	62	59	58																			
9	76	66	61	57	75	66	60	57	65	60	56	64	59	56	63	59	56	55																			
10	72	63	57	53	71	62	57	53	62	57	53	61	56	53	60	56	53	52																			

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

	0°
0°	250934
5°	250618
10°	245725
15°	228488
20°	196512
25°	157872
30°	123242
35°	86281
40°	44296
45°	22485
50°	11264
55°	4215
60°	1702
65°	1343
70°	829
75°	524
80°	781
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	191.4	11.2
10°-20°	493.9	29.0
20°-30°	532.1	31.2
30°-40°	349.6	20.5
40°-50°	108.7	6.4
50°-60°	21.3	1.3
60°-70°	4.5	0.3
70°-80°	1.6	0.1
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°	1217.4	71.5
0°-40°	1567.0	92.0
0°-60°	1697.0	99.6
0°-90°	1703.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1703.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2034	
5°	2024	191
15°	1789	494
25°	1160	532
35°	573	350
45°	129	109
55°	20	21
65°	5	5
75°	1	2
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	2034.4
2.5°	2024.1
5°	2024.1
7.5°	2007.9
10°	1961.9
12.5°	1888.3
15°	1789.3
17.5°	1657.1
20°	1497.1
22.5°	1324.4
25°	1160.0
27.5°	1006.8
30°	865.3
32.5°	731.9
35°	573.0
37.5°	399.3
40°	275.1
42.5°	189.8
45°	128.9
47.5°	87.4
50°	58.7
52.5°	36.8
55°	19.6
57.5°	8.0
60°	6.9
62.5°	5.7
65°	4.6
67.5°	3.4
70°	2.3
72.5°	2.3
75°	1.1
77.5°	1.1
80°	1.1
82.5°	1.1
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)