

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: P579796

Luminaire Tested: **HCC4S10D010SL-HM40525935-41WDH**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P579796  
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: HCC4S10D010SL-HM40525935-41WDH  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

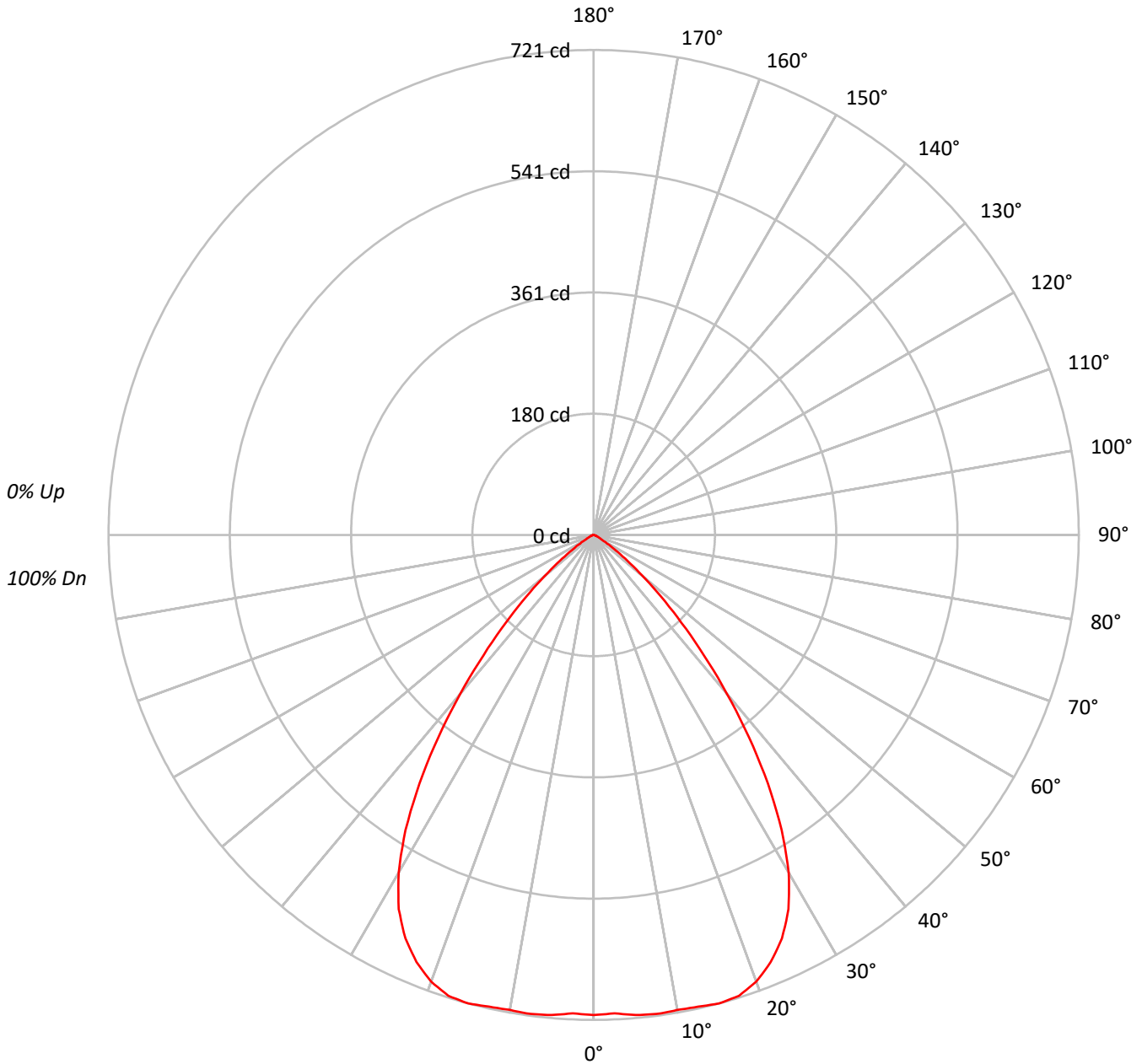
Lumens per Lamp: N/A  
Luminaire Lumens: 1047.3 lumens  
Efficiency: N/A  
Efficacy: 105.8 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.11  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 9.9  
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	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	61	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°	88044
5°	88715
10°	89816
15°	92069
20°	92749
25°	90096
30°	82594
35°	67955
40°	49545
45°	32166
50°	18134
55°	8623
60°	3404
65°	2101
70°	1443
75°	905
80°	497
85°	991



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	68.4	6.5
10°-20°	203.3	19.4
20°-30°	301.5	28.8
30°-40°	278.5	26.6
40°-50°	145.4	13.9
50°-60°	39.9	3.8
60°-70°	7.7	0.7
70°-80°	2.2	0.2
80°-90°	0.5	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°	573.2	54.7
0°-40°	851.6	81.3
0°-60°	1036.9	99.0
0°-90°	1047.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1047.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	714	
5°	716	68
15°	721	203
25°	662	302
35°	451	278
45°	184	145
55°	40	40
65°	7	8
75°	2	2
85°	1	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	713.8
2.5°	711.8
5°	716.5
7.5°	718.4
10°	717.1
12.5°	718.4
15°	721.0
17.5°	718.4
20°	706.6
22.5°	687.6
25°	662.0
27.5°	627.2
30°	579.9
32.5°	520.3
35°	451.3
37.5°	379.2
40°	307.7
42.5°	242.1
45°	184.4
47.5°	135.2
50°	94.5
52.5°	62.9
55°	40.1
57.5°	23.7
60°	13.8
62.5°	9.8
65°	7.2
67.5°	5.2
70°	4.0
72.5°	2.6
75°	1.9
77.5°	1.4
80°	0.7
82.5°	0.7
85°	0.7
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)