

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: P580635

Luminaire Tested: **HCC4W40D010MW-HM43040930-41MDH**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P580635  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-5)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/9/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC4W40D010MW-HM43040930-41MDH  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" MEDIUM DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

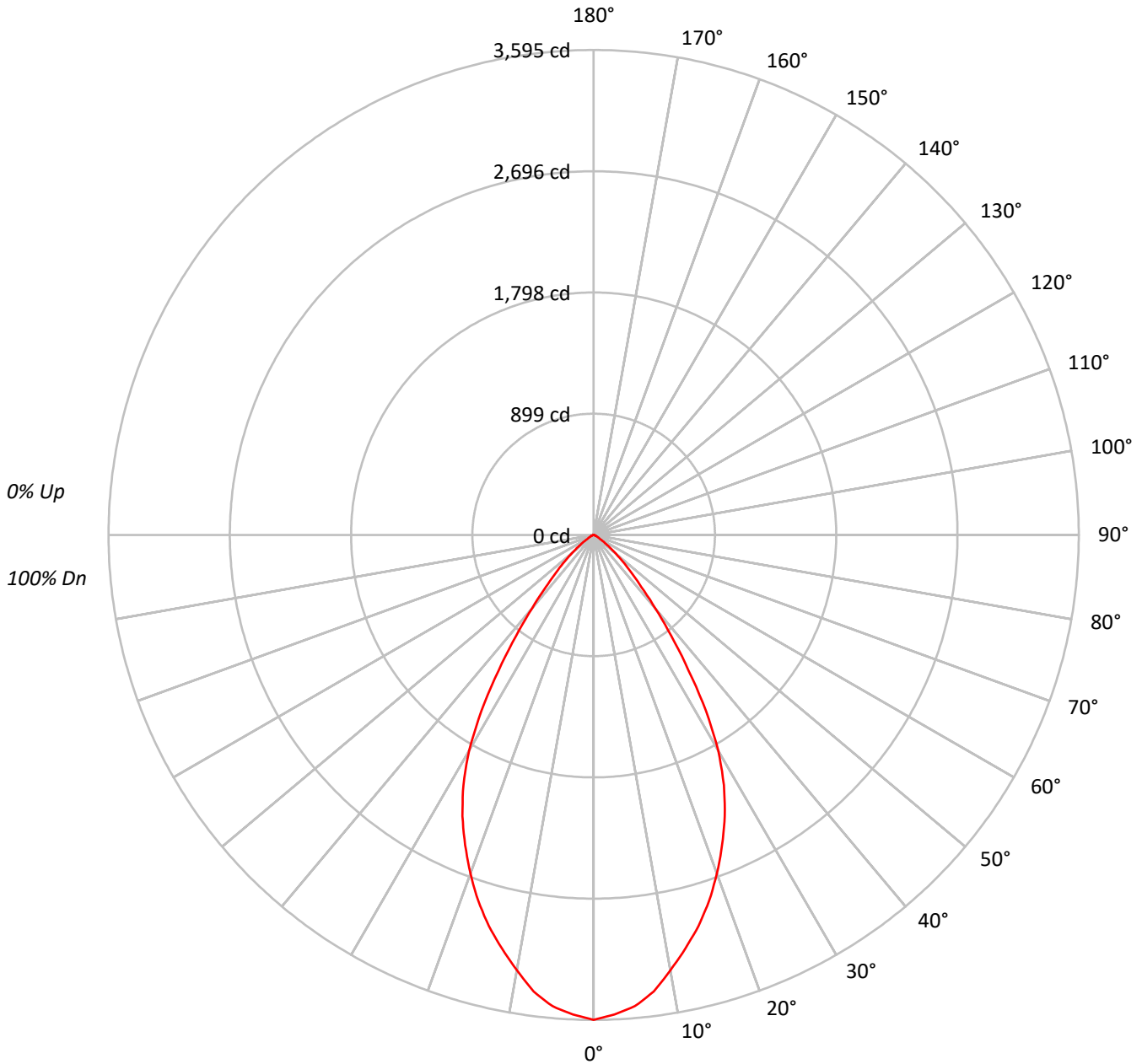
Lumens per Lamp: N/A  
Luminaire Lumens: 3425.4 lumens  
Efficiency: N/A  
Efficacy: 83.5 lumens/watt  
Spacing Criteria (0/90/45): 0.9 / 0.9 / 0.91  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 41  
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	108	105	111	108	106	104	104	102	100	100	99	97	97	96	95	93																			
2	107	102	98	94	105	100	96	93	97	94	91	94	91	89	91	89	87	86																			
3	101	95	89	85	99	93	88	84	91	86	83	88	85	82	86	83	81	79																			
4	96	88	82	78	94	87	81	77	85	80	76	82	79	75	81	77	74	73																			
5	91	82	76	71	89	81	75	71	79	74	70	77	73	70	76	72	69	67																			
6	86	76	70	66	84	76	70	65	74	69	65	73	68	64	71	67	64	62																			
7	81	71	65	61	80	71	65	61	69	64	60	68	63	60	67	63	60	58																			
8	77	67	61	56	76	66	60	56	65	60	56	64	59	56	63	59	56	54																			
9	73	63	57	53	72	63	57	53	62	56	52	61	56	52	60	55	52	51																			
10	70	59	53	49	69	59	53	49	58	53	49	57	52	49	57	52	49	47																			

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

	0°
0°	443428
5°	434176
10°	410301
15°	383205
20°	350482
25°	312968
30°	262821
35°	184879
40°	114032
45°	68292
50°	40240
55°	20042
60°	10336
65°	6800
70°	4219
75°	3336
80°	1705
85°	3397



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	327.5	9.6
10°-20°	838.9	24.5
20°-30°	1046.1	30.5
30°-40°	770.6	22.5
40°-50°	316.9	9.3
50°-60°	92.6	2.7
60°-70°	23.8	0.7
70°-80°	7.4	0.2
80°-90°	1.6	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°	2212.5	64.6
0°-40°	2983.0	87.1
0°-60°	3392.6	99.0
0°-90°	3425.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3425.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3595	
5°	3507	327
15°	3001	839
25°	2300	1046
35°	1228	771
45°	392	317
55°	93	93
65°	23	24
75°	7	7
85°	2	2
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3595.0
2.5°	3557.8
5°	3506.6
7.5°	3413.3
10°	3275.9
12.5°	3140.7
15°	3000.9
17.5°	2844.9
20°	2670.1
22.5°	2488.4
25°	2299.6
27.5°	2090.0
30°	1845.3
32.5°	1549.4
35°	1227.8
37.5°	943.7
40°	708.2
42.5°	524.3
45°	391.5
47.5°	288.9
50°	209.7
52.5°	144.5
55°	93.2
57.5°	55.9
60°	41.9
62.5°	30.3
65°	23.3
67.5°	16.3
70°	11.7
72.5°	9.3
75°	7.0
77.5°	4.7
80°	2.4
82.5°	2.4
85°	2.4
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)