

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: P580603

Luminaire Tested: **HCC4W40D010BZ-HM43040840-41MDC**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P580603  
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: HCC4W40D010BZ-HM43040840-41MDC  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" MEDIUM DISTRIBUTION, SPECULAR TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

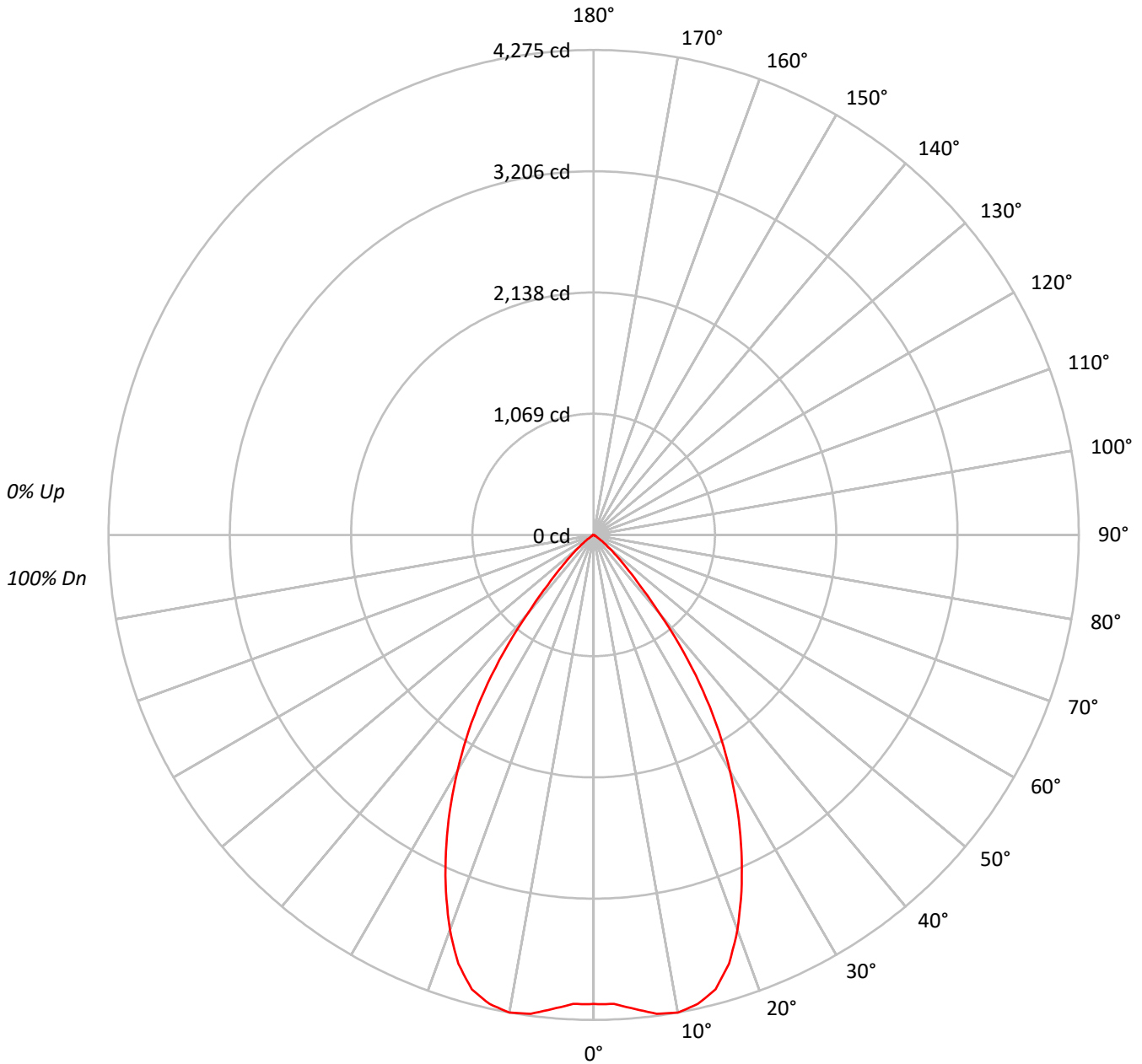
Lumens per Lamp: N/A  
Luminaire Lumens: 4403.8 lumens  
Efficiency: N/A  
Efficacy: 107.4 lumens/watt  
Spacing Criteria (0/90/45): 1 / 1 / 0.96  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 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				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	0
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	99	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		65	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°	510096
5°	519449
10°	535475
15°	529546
20°	486259
25°	419491
30°	341854
35°	253135
40°	145204
45°	70193
50°	33408
55°	11677
60°	4243
65°	2481
70°	2056
75°	1334
80°	0
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	403.5	9.2
10°-20°	1149.6	26.1
20°-30°	1403.9	31.9
30°-40°	1032.1	23.4
40°-50°	342.1	7.8
50°-60°	60.5	1.4
60°-70°	9.1	0.2
70°-80°	3.0	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°	2957.1	67.1
0°-40°	3989.2	90.6
0°-60°	4391.7	99.7
0°-90°	4403.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4403.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4136	
5°	4195	404
15°	4147	1150
25°	3082	1404
35°	1681	1032
45°	402	342
55°	54	60
65°	8	9
75°	3	3
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	4135.5
2.5°	4138.3
5°	4195.3
7.5°	4258.2
10°	4275.3
12.5°	4235.4
15°	4146.9
17.5°	3964.2
20°	3704.5
22.5°	3402.0
25°	3082.3
27.5°	2748.4
30°	2400.2
32.5°	2052.0
35°	1681.1
37.5°	1304.3
40°	901.8
42.5°	596.5
45°	402.4
47.5°	268.3
50°	174.1
52.5°	102.8
55°	54.3
57.5°	22.9
60°	17.2
62.5°	11.4
65°	8.5
67.5°	5.7
70°	5.7
72.5°	2.8
75°	2.8
77.5°	2.8
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)