

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: P580583

Luminaire Tested: **HCC4W40D010BZ-HM43040835-41WDH**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P580583  
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: HCC4W40D010BZ-HM43040835-41WDH  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

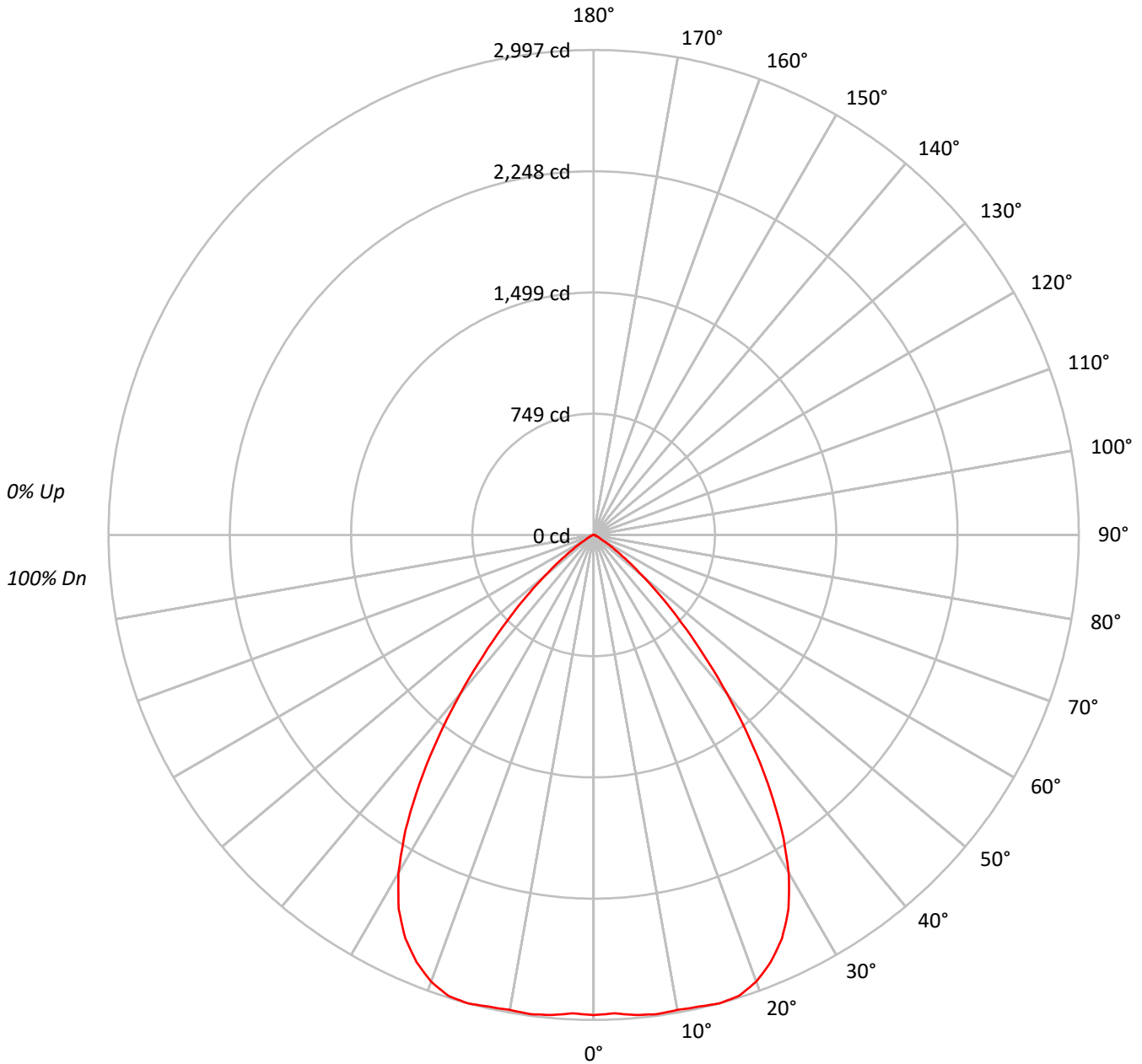
Lumens per Lamp: N/A  
Luminaire Lumens: 4353.5 lumens  
Efficiency: N/A  
Efficacy: 106.2 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.11  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 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	50	30	10	0													
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100						100													
1	113	110	107	104	110	108	105	103	103	101	100	100	98	97	96	95	94	92						92													
2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	88	86	84						84													
3	100	93	87	82	98	91	86	82	88	84	80	86	82	79	84	81	78	76						76													
4	94	85	79	74	92	84	78	74	82	77	73	80	75	72	78	74	71	69						69													
5	88	79	72	67	86	78	72	67	76	70	66	74	69	66	72	68	65	63						63													
6	83	73	66	61	81	72	66	61	70	65	61	69	64	60	68	63	60	58						58													
7	78	68	61	56	77	67	60	56	65	60	55	64	59	55	63	58	55	53						53													
8	74	63	56	51	72	62	56	51	61	55	51	60	55	51	59	54	51	49						49													
9	69	59	52	47	68	58	52	47	57	51	47	56	51	47	55	50	47	45						45													
10	66	55	48	44	65	54	48	44	53	48	44	53	47	44	52	47	43	42						42													

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

	0°
0°	366028
5°	368776
10°	373378
15°	382758
20°	385581
25°	374552
30°	343392
35°	282543
40°	205972
45°	133689
50°	75375
55°	35784
60°	14135
65°	8756
70°	5914
75°	3908
80°	1918
85°	3821



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	284.4	6.5
10°-20°	845.1	19.4
20°-30°	1253.4	28.8
30°-40°	1157.7	26.6
40°-50°	604.5	13.9
50°-60°	165.7	3.8
60°-70°	31.9	0.7
70°-80°	9.0	0.2
80°-90°	1.8	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°	2382.9	54.7
0°-40°	3540.5	81.3
0°-60°	4310.7	99.0
0°-90°	4353.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4353.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2968	
5°	2978	284
15°	2997	845
25°	2752	1253
35°	1876	1158
45°	766	604
55°	166	166
65°	30	32
75°	8	9
85°	3	2
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2967.5
2.5°	2959.3
5°	2978.4
7.5°	2986.6
10°	2981.1
12.5°	2986.6
15°	2997.4
17.5°	2986.6
20°	2937.5
22.5°	2858.3
25°	2752.1
27.5°	2607.4
30°	2411.0
32.5°	2162.9
35°	1876.4
37.5°	1576.5
40°	1279.2
42.5°	1006.4
45°	766.4
47.5°	561.8
50°	392.8
52.5°	261.9
55°	166.4
57.5°	98.2
60°	57.3
62.5°	40.9
65°	30.0
67.5°	21.9
70°	16.4
72.5°	10.9
75°	8.2
77.5°	5.5
80°	2.7
82.5°	2.7
85°	2.7
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)