

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: P581095

Luminaire Tested: **HCC4W05D010BZ-HM40525935-41WDW**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P581095  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-9)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/9/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC4W05D010BZ-HM40525935-41WDW  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

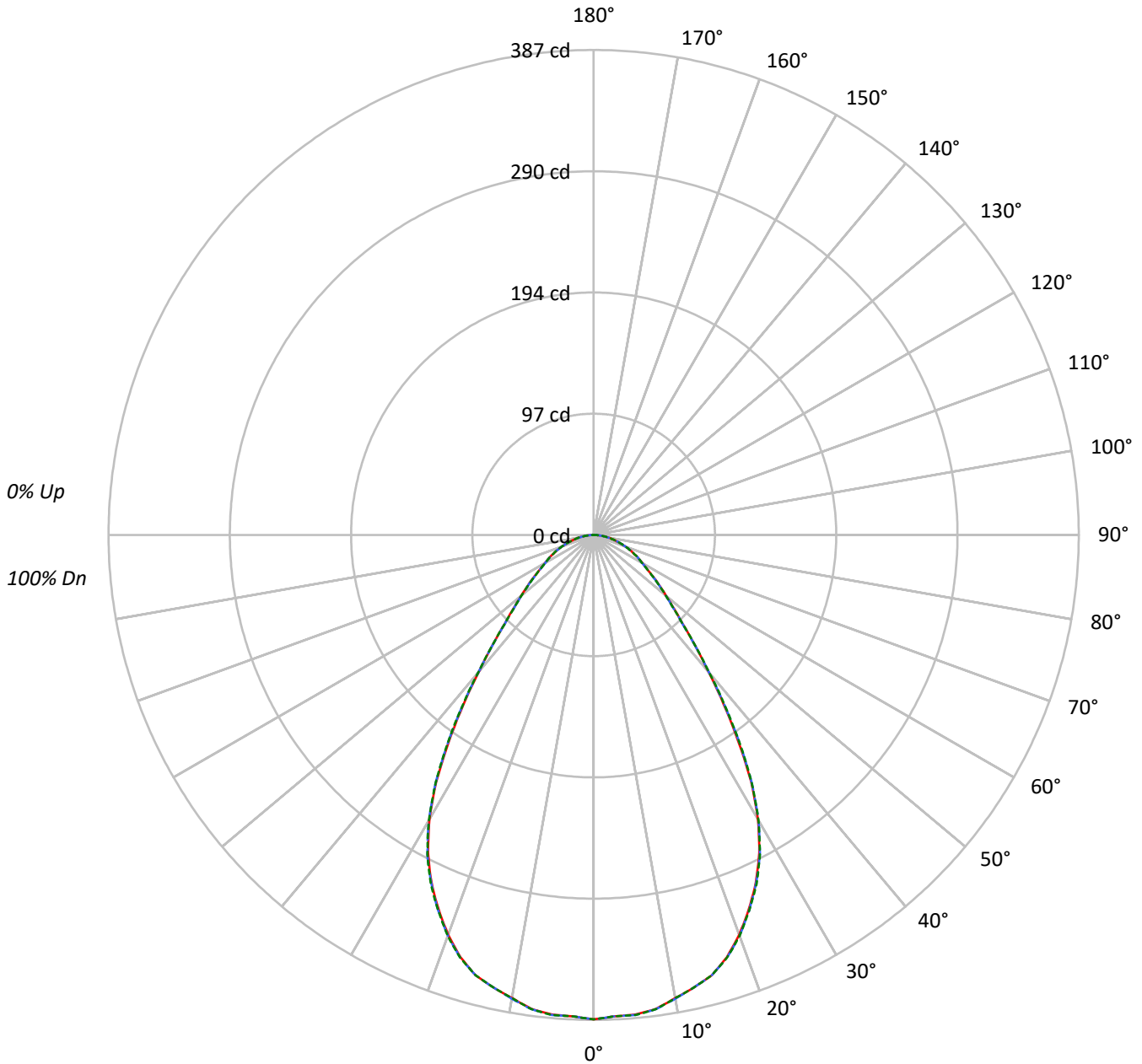
Lumens per Lamp: N/A  
Luminaire Lumens: 596.5 lumens  
Efficiency: N/A  
Efficacy: 99.4 lumens/watt  
Spacing Criteria (0/90/45): 1.06 / 1.07 / 1.04  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 6  
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					70					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	111	107	104	101	108	105	102	99	101	98	96	97	95	93	94	92	90	89								
2	103	97	91	87	101	95	90	86	91	87	84	88	85	82	85	83	80	78								
3	96	87	81	76	94	86	80	75	83	78	74	81	76	72	78	74	71	69								
4	90	80	72	67	87	78	72	66	76	70	66	74	69	65	72	67	64	62								
5	84	73	65	60	82	72	65	59	70	64	59	68	63	58	66	62	58	56								
6	78	67	59	54	77	66	59	54	64	58	53	63	57	53	61	56	53	51								
7	73	62	54	49	72	61	54	49	60	53	49	58	53	48	57	52	48	46								
8	69	57	50	45	68	57	50	45	55	49	45	54	49	44	53	48	44	42								
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	45	41	39								
10	61	50	43	38	60	49	43	38	48	42	38	48	42	38	47	42	38	36								

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

	0°	45°	90°
0°	47685	47685	47685
5°	47570	47608	47608
10°	47006	47068	47006
15°	46456	46456	46456
20°	44550	44655	44695
25°	41659	41727	41836
30°	37330	37444	37444
35°	30296	30537	30612
40°	22880	23009	23058
45°	17513	17444	17444
50°	14449	14354	14354
55°	12408	12301	12301
60°	11052	10953	10953
65°	10390	10390	10390
70°	9665	9665	9665
75°	8769	8960	8769
80°	8240	7956	8240
85°	6793	6793	6793



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	36.4	6.1
10°-20°	101.9	17.1
20°-30°	140.1	23.5
30°-40°	125.9	21.1
40°-50°	79.6	13.3
50°-60°	52.0	8.7
60°-70°	35.2	5.9
70°-80°	19.8	3.3
80°-90°	5.6	0.9
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°	278.4	46.7
0°-40°	404.3	67.8
0°-60°	535.9	89.8
0°-90°	596.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	596.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	387	387	387	387	387	
5°	384	384	384	384	384	36
15°	364	364	364	364	364	102
25°	306	307	307	307	307	140
35°	201	202	203	204	203	125
45°	100	100	100	100	100	80
55°	58	58	57	58	57	52
65°	36	36	36	36	36	35
75°	18	19	19	19	18	20
85°	5	5	5	5	5	6
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	386.6	386.6	386.6	386.6	386.6
2.5°	384.5	384.5	384.5	384.5	384.5
5°	384.2	384.2	384.5	384.5	384.5
7.5°	381.4	381.7	381.7	381.7	381.7
10°	375.3	375.3	375.8	375.8	375.3
12.5°	369.8	369.8	369.8	370.1	369.8
15°	363.8	363.8	363.8	363.8	363.8
17.5°	353.3	353.8	353.8	353.8	353.8
20°	339.4	340.2	340.2	340.5	340.5
22.5°	323.4	323.7	324.2	324.5	324.2
25°	306.1	306.6	306.6	307.4	307.4
27.5°	286.1	286.5	287.3	287.3	287.3
30°	262.1	262.5	262.9	262.9	262.9
32.5°	233.7	233.7	234.5	234.9	234.5
35°	201.2	202.0	202.8	203.7	203.3
37.5°	170.5	171.3	171.6	171.6	172.1
40°	142.1	142.9	142.9	143.7	143.2
42.5°	119.6	119.3	119.3	120.1	119.6
45°	100.4	100.0	100.0	100.0	100.0
47.5°	86.5	86.0	86.0	86.0	86.0
50°	75.3	74.8	74.8	74.8	74.8
52.5°	66.1	65.6	65.6	65.6	65.3
55°	57.7	57.7	57.2	57.7	57.2
57.5°	50.1	50.1	50.1	50.1	50.1
60°	44.8	44.4	44.4	44.4	44.4
62.5°	40.1	40.1	40.1	40.1	40.1
65°	35.6	35.6	35.6	35.6	35.6
67.5°	31.2	30.8	31.2	31.2	30.8
70°	26.8	26.4	26.8	26.8	26.8
72.5°	22.4	22.4	22.4	22.8	22.4
75°	18.4	18.8	18.8	18.8	18.4
77.5°	14.8	15.2	14.8	14.8	14.8
80°	11.6	11.2	11.2	11.2	11.6
82.5°	8.1	8.1	8.1	8.1	8.1
85°	4.8	4.8	4.8	4.8	4.8
87.5°	2.0	2.0	2.0	2.0	2.0
90°	0.0	0.0	0.0	0.0	0.0

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— 0°-180°    - - 45°-225°    - - - - 90°-270°

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