

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: P584613

Luminaire Tested: **HCC8W40D010BZ-HM82555935-81NDH**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P584613  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-2)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 10/21/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC8W40D010BZ-HM82555935-81NDH  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" NARROW DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

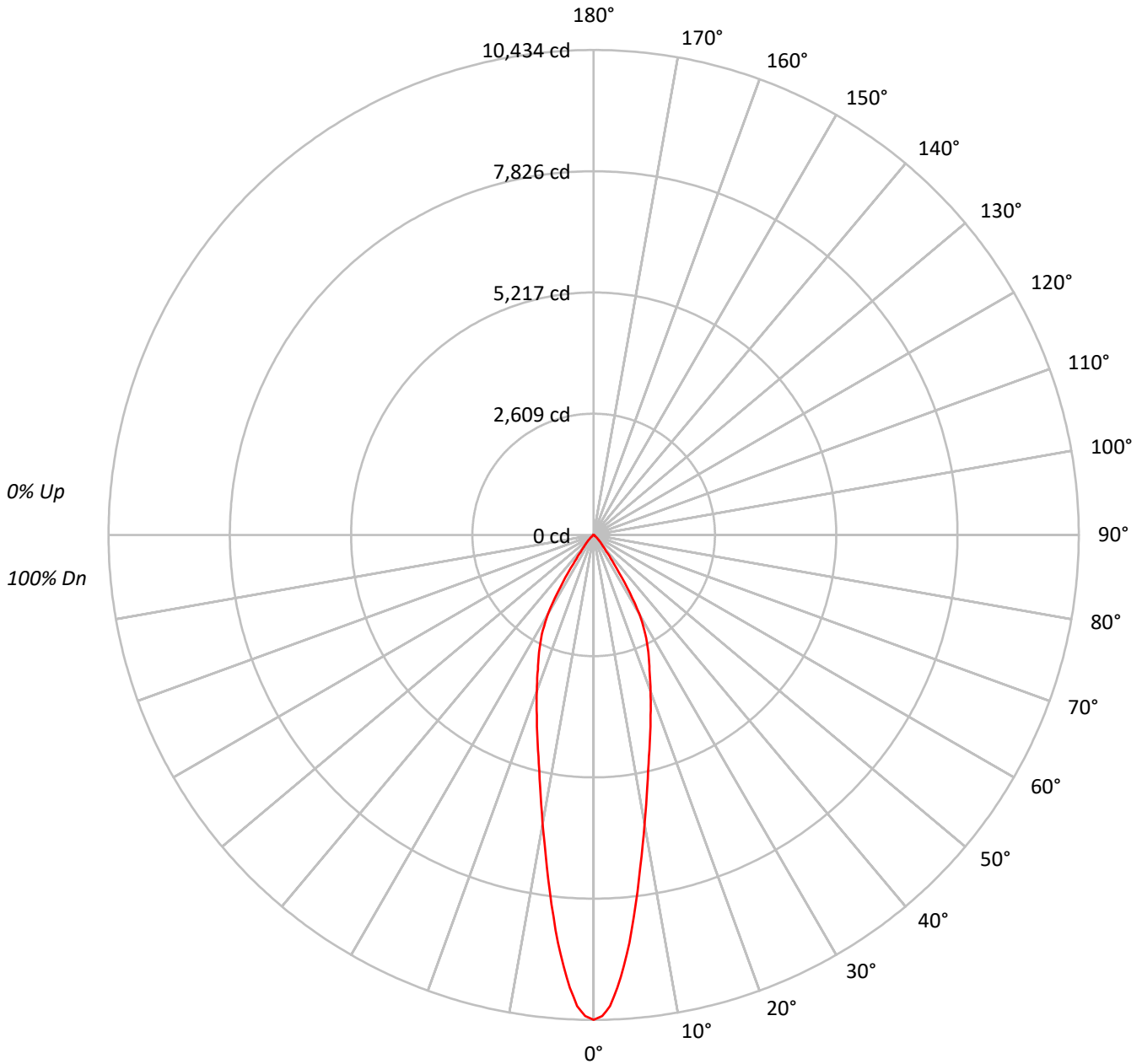
Lumens per Lamp: N/A  
Luminaire Lumens: 4043.5 lumens  
Efficiency: N/A  
Efficacy: 98.6 lumens/watt  
Spacing Criteria (0/90/45): 0.42 / 0.42 / 0.57  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

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	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	100	100
1	114	112	109	107	112	109	107	106	105	104	102	102	100	99	98	97	96	95	95	95	95
2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	92	91	89	89	89	89
3	104	99	94	91	102	97	93	90	95	91	88	92	90	87	90	88	86	84	84	84	84
4	100	93	88	84	98	92	87	84	90	86	83	88	85	82	86	83	81	80	80	80	80
5	96	88	83	79	94	87	82	79	86	81	78	84	80	77	82	79	77	75	75	75	75
6	92	84	78	75	90	83	78	74	81	77	74	80	76	73	79	76	73	72	72	72	72
7	88	80	74	70	87	79	74	70	78	73	70	77	73	70	76	72	69	68	68	68	68
8	84	76	71	67	83	75	70	67	74	70	66	73	69	66	72	69	66	65	65	65	65
9	81	72	67	64	80	72	67	63	71	66	63	70	66	63	69	66	63	62	62	62	62
10	78	69	64	61	77	69	64	61	68	63	60	67	63	60	67	63	60	59	59	59	59

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

	0°
0°	321740
5°	272582
10°	197773
15°	148520
20°	117187
25°	94526
30°	70046
35°	28380
40°	11972
45°	6419
50°	2883
55°	1452
60°	925
65°	657
70°	532
75°	357
80°	533
85°	1061



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	756.1	18.7
10°-20°	1306.7	32.3
20°-30°	1263.3	31.2
30°-40°	554.9	13.7
40°-50°	120.0	3.0
50°-60°	27.0	0.7
60°-70°	9.2	0.2
70°-80°	3.6	0.1
80°-90°	2.9	0.1
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°	3326.1	82.3
0°-40°	3880.9	96.0
0°-60°	4027.9	99.6
0°-90°	4043.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4043.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	10434	
5°	8806	756
15°	4652	1307
25°	2778	1263
35°	754	555
45°	147	120
55°	27	27
65°	9	9
75°	3	4
85°	3	3
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	10433.8
1°	10355.7
2°	10142.5
3°	9758.1
4°	9298.5
5°	8806.0
6°	8268.4
7°	7727.7
8°	7220.2
9°	6748.6
10°	6316.2
11°	5907.8
12°	5541.2
13°	5207.9
14°	4913.6
15°	4652.3
17.5°	4066.6
20°	3571.1
22.5°	3135.5
25°	2778.2
27.5°	2414.7
30°	1967.2
32.5°	1336.5
35°	753.9
37.5°	444.5
40°	297.4
42.5°	210.3
45°	147.2
47.5°	96.2
50°	60.1
52.5°	36.1
55°	27.0
57.5°	21.1
60°	15.0
62.5°	12.0
65°	9.0
67.5°	5.9
70°	5.9
72.5°	3.0
75°	3.0
77.5°	3.0
80°	3.0
82.5°	3.0

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**CANDELA DISTRIBUTION (continued):**

0°  
90° | 0.0

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Report Generated By 670245859 / DESKTOP-T8S5UU9



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— 0°-180°

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85°		3.0
87.5°		3.0

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(END OF REPORT)