

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: P584545

Luminaire Tested: **HCC8W40D010SL-HM82555835-81NDH**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P584545  
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: HCC8W40D010SL-HM82555835-81NDH  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" NARROW DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

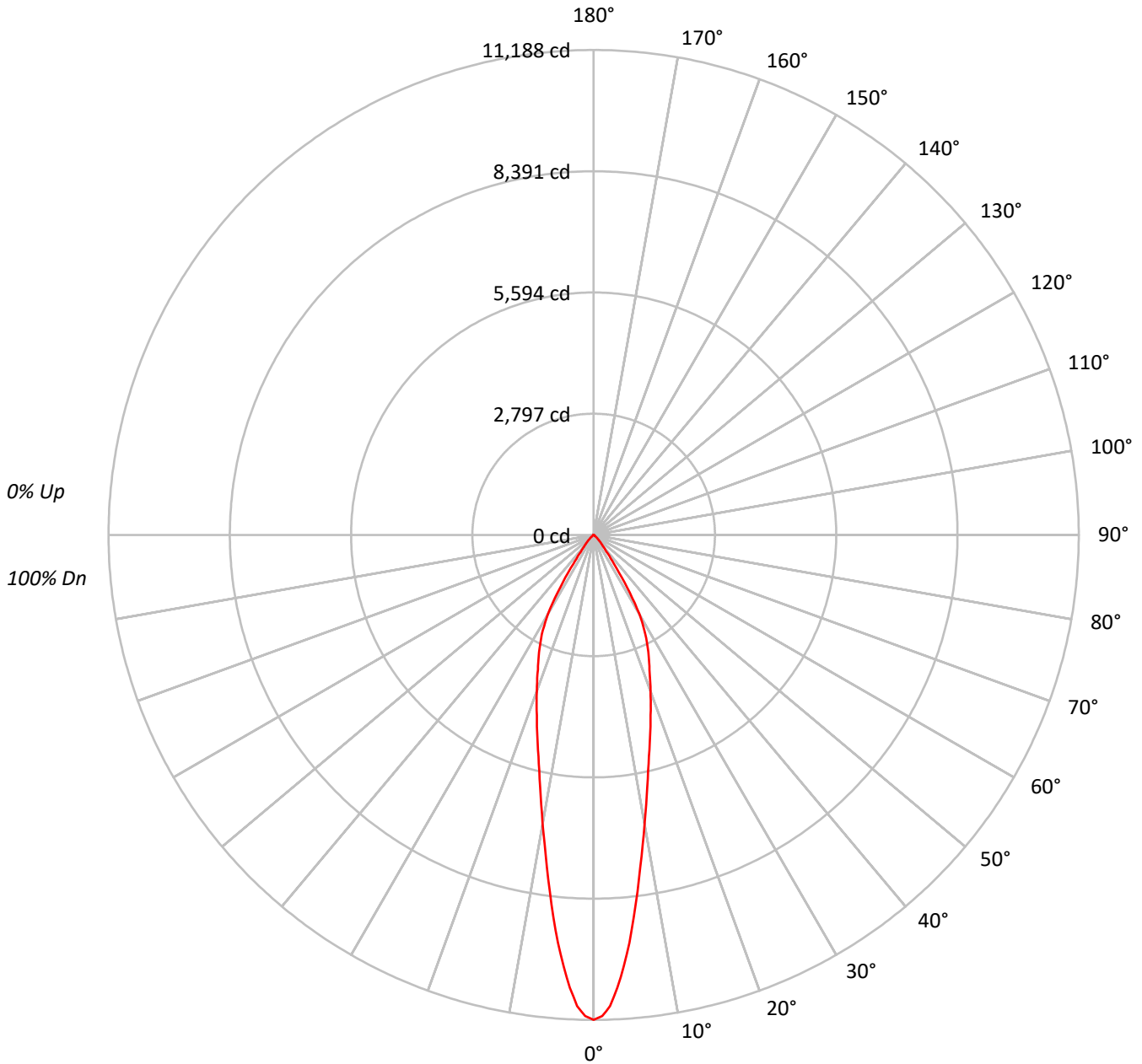
Lumens per Lamp: N/A  
Luminaire Lumens: 4335.8 lumens  
Efficiency: N/A  
Efficacy: 105.8 lumens/watt  
Spacing Criteria (0/90/45): 0.42 / 0.42 / 0.57  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	114	112	109	107	112	109	107	106	105	104	102	102	100	99	98	97	96	95		
2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	92	91	89		
3	104	99	94	91	102	97	93	90	95	91	88	92	90	87	90	88	86	84		
4	100	93	88	84	98	92	87	84	90	86	83	88	85	82	86	83	81	80		
5	96	88	83	79	94	87	82	79	86	81	78	84	80	77	82	79	77	75		
6	92	84	78	75	90	83	78	74	81	77	74	80	76	73	79	76	73	72		
7	88	80	74	70	87	79	74	70	78	73	70	77	73	70	76	72	69	68		
8	84	76	71	67	83	75	70	67	74	70	66	73	69	66	72	69	66	65		
9	81	72	67	64	80	72	67	63	71	66	63	70	66	63	69	66	63	62		
10	78	69	64	61	77	69	64	61	68	63	60	67	63	60	67	63	60	59		

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

	0°
0°	345009
5°	292297
10°	212076
15°	159260
20°	125660
25°	101358
30°	75112
35°	30432
40°	12833
45°	6882
50°	3089
55°	1559
60°	993
65°	700
70°	577
75°	381
80°	568
85°	1132



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	810.8	18.7
10°-20°	1401.2	32.3
20°-30°	1354.7	31.2
30°-40°	595.0	13.7
40°-50°	128.6	3.0
50°-60°	28.9	0.7
60°-70°	9.9	0.2
70°-80°	3.8	0.1
80°-90°	3.1	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°	3566.6	82.3
0°-40°	4161.6	96.0
0°-60°	4319.1	99.6
0°-90°	4335.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4335.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	11188	
5°	9443	811
15°	4989	1401
25°	2979	1355
35°	808	595
45°	158	129
55°	29	29
65°	10	10
75°	3	4
85°	3	3
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	11188.4
1°	11104.7
2°	10876.0
3°	10463.8
4°	9971.0
5°	9442.9
6°	8866.3
7°	8286.7
8°	7742.4
9°	7236.7
10°	6773.0
11°	6335.0
12°	5942.0
13°	5584.6
14°	5269.0
15°	4988.7
17.5°	4360.8
20°	3829.3
22.5°	3362.3
25°	2979.0
27.5°	2589.3
30°	2109.5
32.5°	1433.1
35°	808.4
37.5°	476.6
40°	318.8
42.5°	225.4
45°	157.8
47.5°	103.1
50°	64.4
52.5°	38.7
55°	29.0
57.5°	22.5
60°	16.1
62.5°	12.9
65°	9.6
67.5°	6.4
70°	6.4
72.5°	3.2
75°	3.2
77.5°	3.2
80°	3.2
82.5°	3.2

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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°	3.2
87.5°	3.2

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(END OF REPORT)