

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: P584477

Luminaire Tested: **HCC8S35D010SL-HM82555935-81NDH**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P584477  
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: HCC8S35D010SL-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**

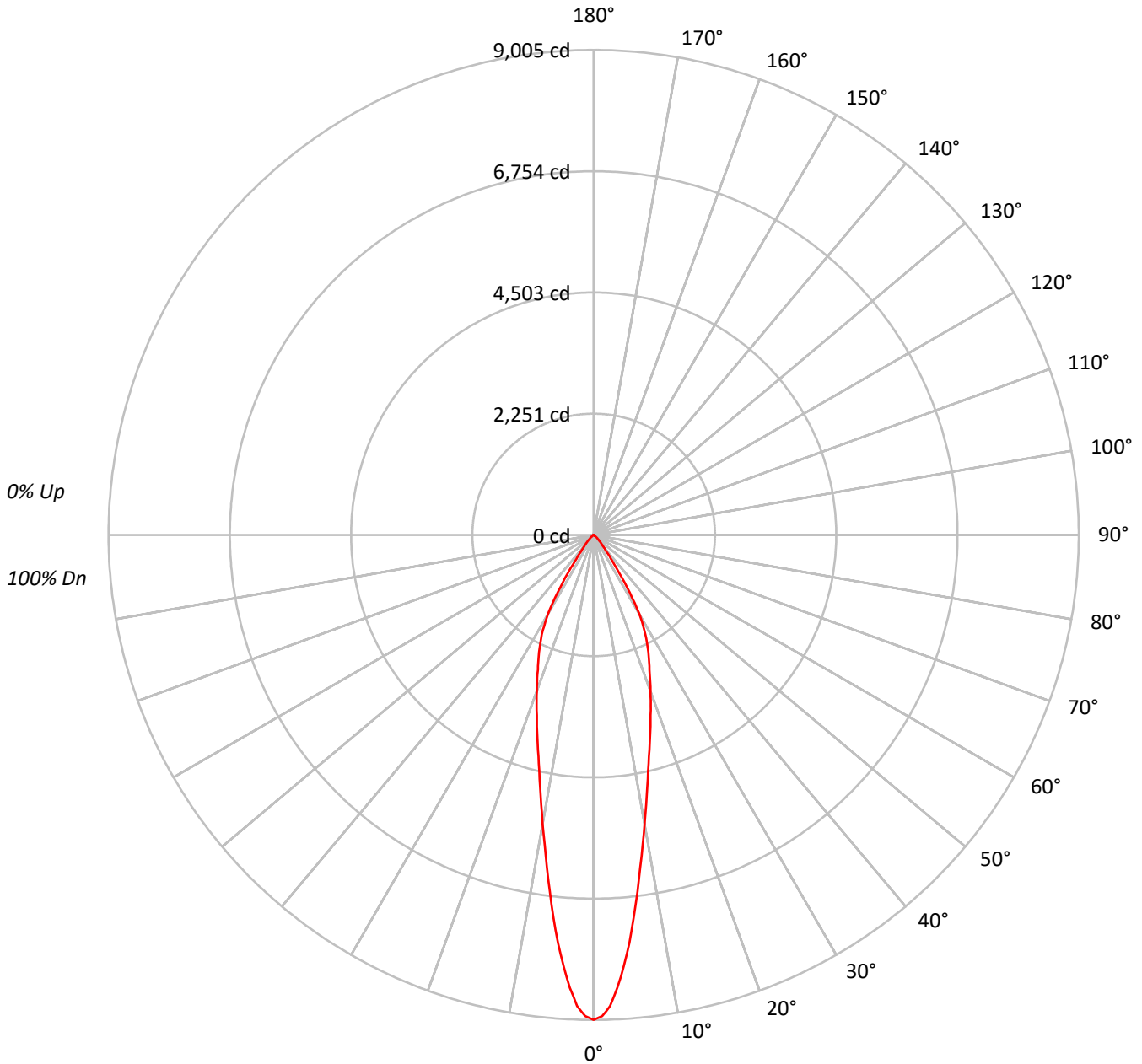
Lumens per Lamp: N/A  
Luminaire Lumens: 3489.9 lumens  
Efficiency: N/A  
Efficacy: 103.6 lumens/watt  
Spacing Criteria (0/90/45): 0.42 / 0.42 / 0.57  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

Input Watts (W): 33.7  
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			
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°	277693
5°	235264
10°	170694
15°	128185
20°	101140
25°	81583
30°	60457
35°	24491
40°	10329
45°	5538
50°	2490
55°	1258
60°	796
65°	569
70°	469
75°	310
80°	462
85°	920



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	652.6	18.7
10°-20°	1127.8	32.3
20°-30°	1090.4	31.2
30°-40°	478.9	13.7
40°-50°	103.5	3.0
50°-60°	23.3	0.7
60°-70°	8.0	0.2
70°-80°	3.1	0.1
80°-90°	2.5	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°	2870.7	82.3
0°-40°	3349.6	96.0
0°-60°	3476.4	99.6
0°-90°	3489.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3489.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	9005	
5°	7600	653
15°	4015	1128
25°	2398	1090
35°	651	479
45°	127	104
55°	23	23
65°	8	8
75°	3	3
85°	3	2
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	9005.4
1°	8937.9
2°	8753.9
3°	8422.1
4°	8025.5
5°	7600.4
6°	7136.4
7°	6669.7
8°	6231.6
9°	5824.7
10°	5451.4
11°	5098.9
12°	4782.7
13°	4494.9
14°	4240.8
15°	4015.3
17.5°	3509.9
20°	3082.1
22.5°	2706.3
25°	2397.8
27.5°	2084.2
30°	1697.9
32.5°	1153.6
35°	650.6
37.5°	383.6
40°	256.6
42.5°	181.5
45°	127.0
47.5°	82.9
50°	51.9
52.5°	31.1
55°	23.4
57.5°	18.1
60°	12.9
62.5°	10.4
65°	7.8
67.5°	5.2
70°	5.2
72.5°	2.6
75°	2.6
77.5°	2.6
80°	2.6
82.5°	2.6

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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°	2.6
87.5°	2.6

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(END OF REPORT)