

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: P580551

Luminaire Tested: **HCC4S40D010SL-HM43040827-41WDC**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P580551  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-7)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/9/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC4S40D010SL-HM43040827-41WDC  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, SPECULAR TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

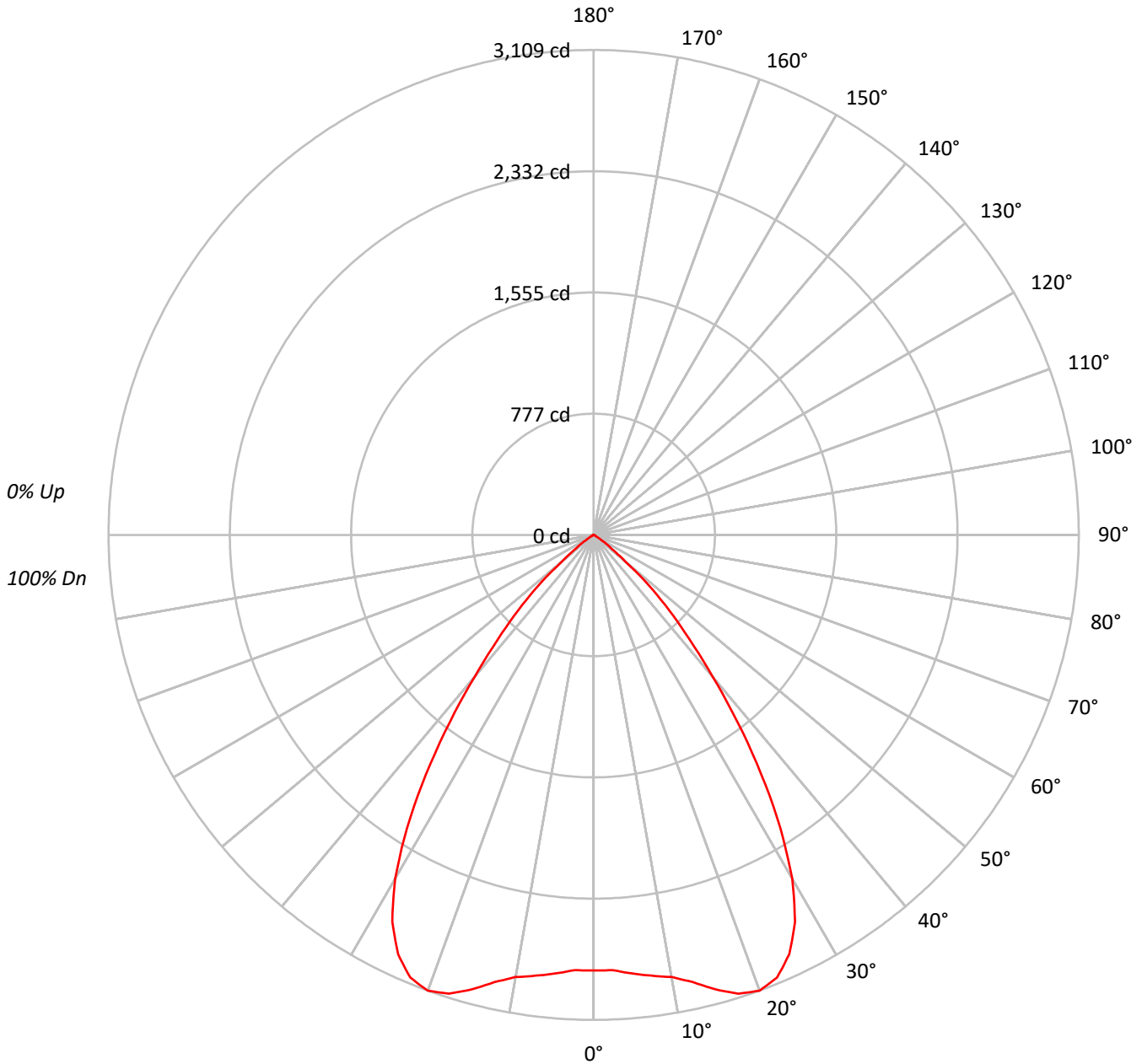
Lumens per Lamp: N/A  
Luminaire Lumens: 4263.8 lumens  
Efficiency: N/A  
Efficacy: 104.0 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.11  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

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

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

	0°
0°	344443
5°	349498
10°	360452
15°	385159
20°	408119
25°	403650
30°	362292
35°	281956
40°	191030
45°	119263
50°	51600
55°	17311
60°	4342
65°	2948
70°	1803
75°	1191
80°	1776
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	271.1	6.4
10°-20°	856.2	20.1
20°-30°	1341.5	31.5
30°-40°	1157.8	27.2
40°-50°	532.4	12.5
50°-60°	90.4	2.1
60°-70°	10.2	0.2
70°-80°	3.6	0.1
80°-90°	0.3	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°	2468.9	57.9
0°-40°	3626.7	85.1
0°-60°	4249.6	99.7
0°-90°	4263.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4263.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2792	
5°	2823	271
15°	3016	856
25°	2966	1342
35°	1872	1158
45°	684	532
55°	80	90
65°	10	10
75°	2	4
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2792.5
2.5°	2792.5
5°	2822.7
7.5°	2850.3
10°	2877.9
12.5°	2935.8
15°	3016.2
17.5°	3084.1
20°	3109.2
22.5°	3071.5
25°	2965.9
27.5°	2795.0
30°	2543.7
32.5°	2227.0
35°	1872.5
37.5°	1515.6
40°	1186.4
42.5°	907.3
45°	683.7
47.5°	480.1
50°	268.9
52.5°	148.3
55°	80.5
57.5°	40.2
60°	17.6
62.5°	12.6
65°	10.1
67.5°	7.5
70°	5.0
72.5°	5.0
75°	2.5
77.5°	2.5
80°	2.5
82.5°	0.0
85°	0.0
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)