

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: P580590

Luminaire Tested: **HCC4S40D010SL-HM43040835-41PSMDW**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P580590  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-12)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/9/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC4S40D010SL-HM43040835-41PSMDW  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" PLASTIC TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

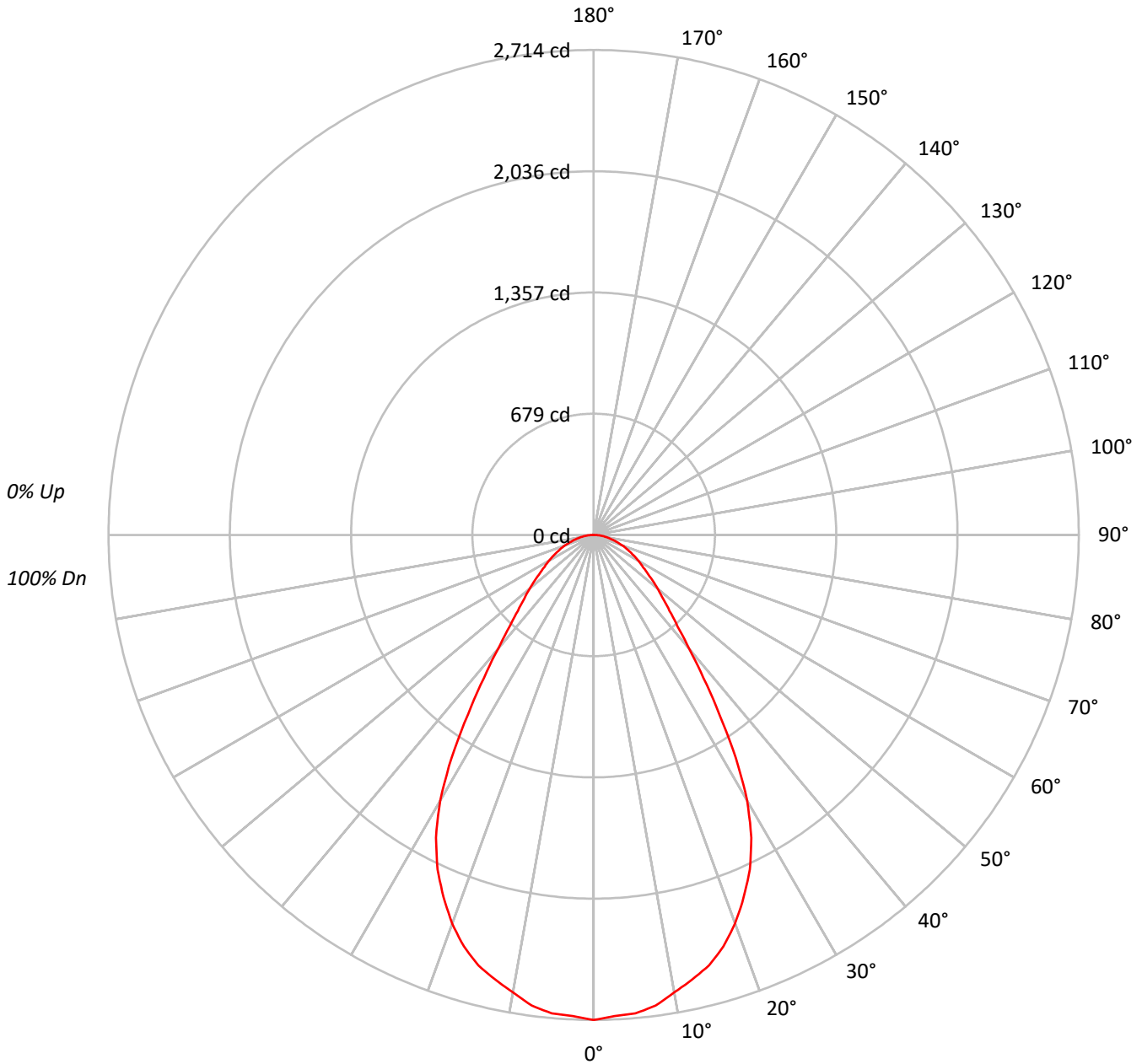
Lumens per Lamp: N/A  
Luminaire Lumens: 3854.4 lumens  
Efficiency: N/A  
Efficacy: 94.0 lumens/watt  
Spacing Criteria (0/90/45): 1.03 / 1.03 / 0.99  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

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				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	111	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89		
2	103	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	80	78		
3	96	88	81	76	94	86	80	75	84	78	74	81	77	73	79	75	72	70		
4	90	80	73	68	88	79	72	67	77	71	66	74	69	65	72	68	65	63		
5	84	74	66	61	82	72	66	60	71	64	60	69	63	59	67	62	59	57		
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	53	52		
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47		
8	70	58	51	46	68	58	51	46	56	50	46	55	50	45	54	49	45	44		
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	40		
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	37		

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

	0°
0°	334809
5°	332708
10°	325633
15°	318437
20°	303700
25°	281149
30°	244533
35°	184668
40°	133837
45°	104575
50°	89422
55°	77352
60°	71269
65°	65231
70°	60912
75°	55806
80°	52208
85°	50099



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	253.8	6.6
10°-20°	698.5	18.1
20°-30°	939.3	24.4
30°-40°	772.3	20.0
40°-50°	474.3	12.3
50°-60°	328.2	8.5
60°-70°	223.7	5.8
70°-80°	124.6	3.2
80°-90°	39.7	1.0
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°	1891.6	49.1
0°-40°	2663.9	69.1
0°-60°	3466.4	89.9
0°-90°	3854.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3854.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2714	
5°	2687	254
15°	2494	698
25°	2066	939
35°	1226	772
45°	600	474
55°	360	328
65°	224	224
75°	117	125
85°	35	40
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2714.4
2.5°	2695.3
5°	2687.1
7.5°	2657.2
10°	2599.9
12.5°	2548.1
15°	2493.7
17.5°	2414.6
20°	2313.7
22.5°	2193.9
25°	2065.8
27.5°	1910.4
30°	1716.9
32.5°	1479.8
35°	1226.4
37.5°	1008.3
40°	831.2
42.5°	694.9
45°	599.5
47.5°	526.0
50°	466.0
52.5°	411.5
55°	359.7
57.5°	321.6
60°	288.9
62.5°	256.1
65°	223.5
67.5°	196.2
70°	168.9
72.5°	141.7
75°	117.1
77.5°	92.7
80°	73.5
82.5°	54.5
85°	35.4
87.5°	19.1
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)