

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: P592805

Luminaire Tested: **HC4R40D010-HM43040850-42RMDC**

Issue Date: 9/23/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P592805  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-13)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/23/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC4R40D010-HM43040850-42RMDC  
Description: HALO COMMERCIAL 4" ROUND, RETROFIT FRAME, WITH 4" MEDIUM DISTRIBUTION, SPECULAR TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4423.7 lumens  
Efficiency: N/A  
Efficacy: 107.9 lumens/watt  
Spacing Criteria (0/90/45): 1.02 / 1.02 / 0.96  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

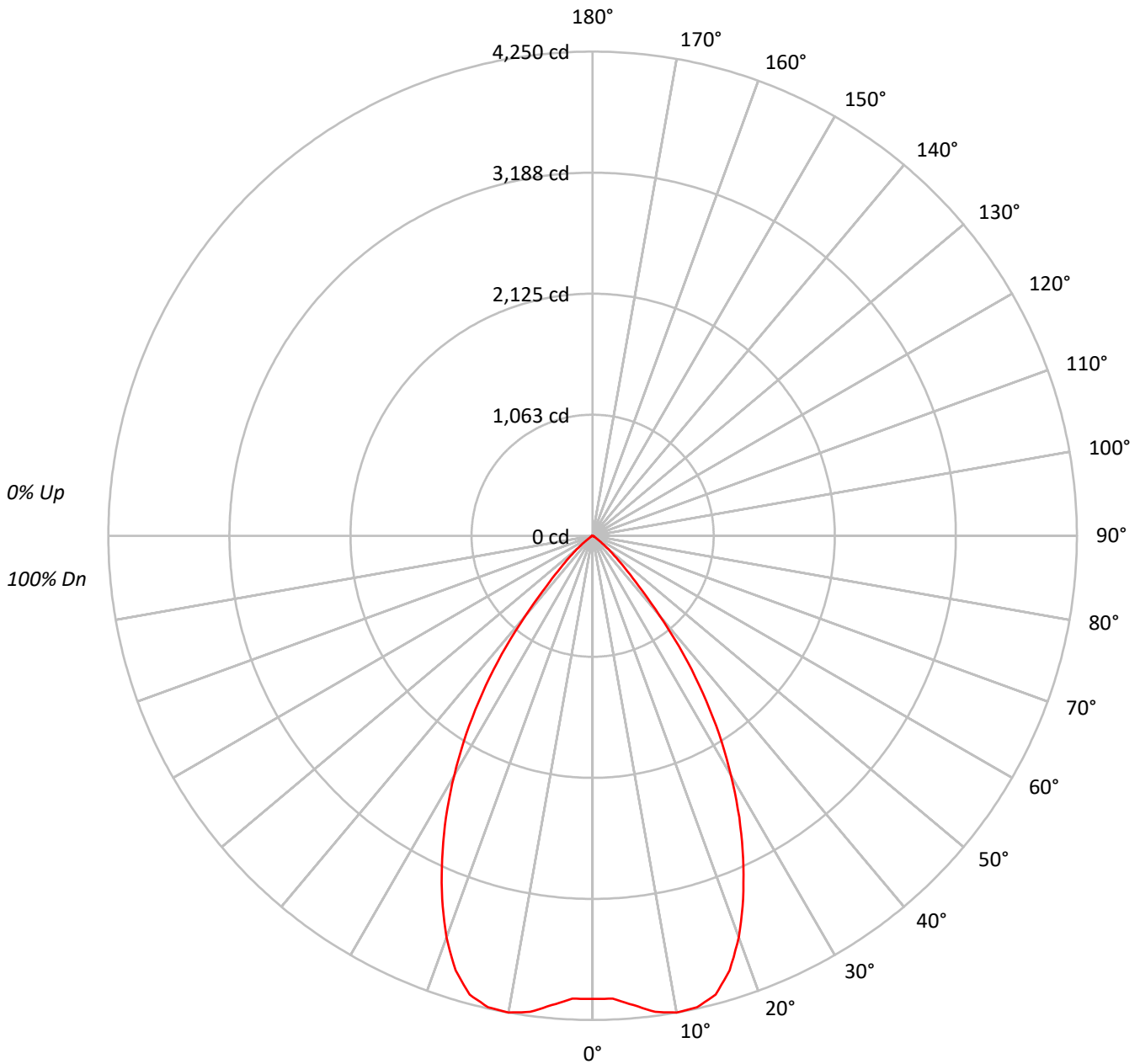
Input Watts (W): 41  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P592805

CATALOG NUMBER: HC4R40D010-HM43040850-42RMDC

### Luminous Intensity Polar Plot





TEST NUMBER: P592805

CATALOG NUMBER: HC4R40D010-HM43040850-42RMDC

**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	113	111	108	106	111	108	106	104	104	103	101	101	99	98	97	96	95	93			
2	108	103	99	95	105	101	97	94	98	95	92	95	92	90	92	90	88	86			
3	102	95	90	86	100	94	89	86	91	87	84	89	86	83	87	84	82	80			
4	97	89	83	79	95	88	82	78	86	81	77	84	80	77	82	78	76	74			
5	92	83	77	73	90	82	76	72	80	75	72	78	74	71	77	73	70	69			
6	87	78	71	67	85	77	71	67	75	70	66	74	69	66	72	68	65	64			
7	82	73	66	62	81	72	66	62	71	65	62	69	65	61	68	64	61	60			
8	78	68	62	58	77	68	62	58	67	61	57	65	61	57	65	60	57	56			
9	74	64	58	54	73	64	58	54	63	57	54	62	57	54	61	57	53	52			
10	70	61	55	51	69	60	54	51	59	54	50	58	54	50	58	53	50	49			

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

	0°
0°	501314
5°	512057
10°	532256
15°	532470
20°	492297
25°	425425
30°	346098
35°	254250
40°	146960
45°	68658
50°	31758
55°	11032
60°	3503
65°	2481
70°	2056
75°	1334
80°	0
85°	0



TEST NUMBER: P592805

CATALOG NUMBER: HC4R40D010-HM43040850-42RMDC

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	399.0	9.0
10°-20°	1155.6	26.1
20°-30°	1423.2	32.2
30°-40°	1039.0	23.5
40°-50°	338.6	7.7
50°-60°	56.6	1.3
60°-70°	8.8	0.2
70°-80°	3.0	0.1
80°-90°	0.0	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°	2977.8	67.3
0°-40°	4016.8	90.8
0°-60°	4412.0	99.7
0°-90°	4423.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4423.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4064	
5°	4136	399
15°	4170	1156
25°	3126	1423
35°	1688	1039
45°	394	339
55°	51	57
65°	8	9
75°	3	3
85°	0	0
90°	0	



TEST NUMBER: P592805

CATALOG NUMBER: HC4R40D010-HM43040850-42RMDC

**CANDELA DISTRIBUTION (FULL):**

0°	
0°	4064.3
2.5°	4067.1
5°	4135.6
7.5°	4215.4
10°	4249.6
12.5°	4238.3
15°	4169.8
17.5°	3998.7
20°	3750.5
22.5°	3451.1
25°	3125.9
27.5°	2786.5
30°	2430.0
32.5°	2064.9
35°	1688.5
37.5°	1309.1
40°	912.7
42.5°	596.0
45°	393.6
47.5°	259.5
50°	165.5
52.5°	97.0
55°	51.3
57.5°	20.0
60°	14.2
62.5°	11.4
65°	8.5
67.5°	5.7
70°	5.7
72.5°	2.8
75°	2.8
77.5°	2.8
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By 670245859 / DESKTOP-HRDQ47P







— 0°-180°







(END OF REPORT)