

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: P579905

Luminaire Tested: **HC4R15D010-HM40525927-42RMDC**

Issue Date: 9/23/2021

Test Information

Test Method: LM-41-14
Report Number: P579905
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: HC4R15D010-HM40525927-42RMDC
Description: HALO COMMERCIAL 4" ROUND, RETROFIT FRAME, WITH 4" MEDIUM DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1179.9 lumens
Efficiency: N/A
Efficacy: 84.3 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

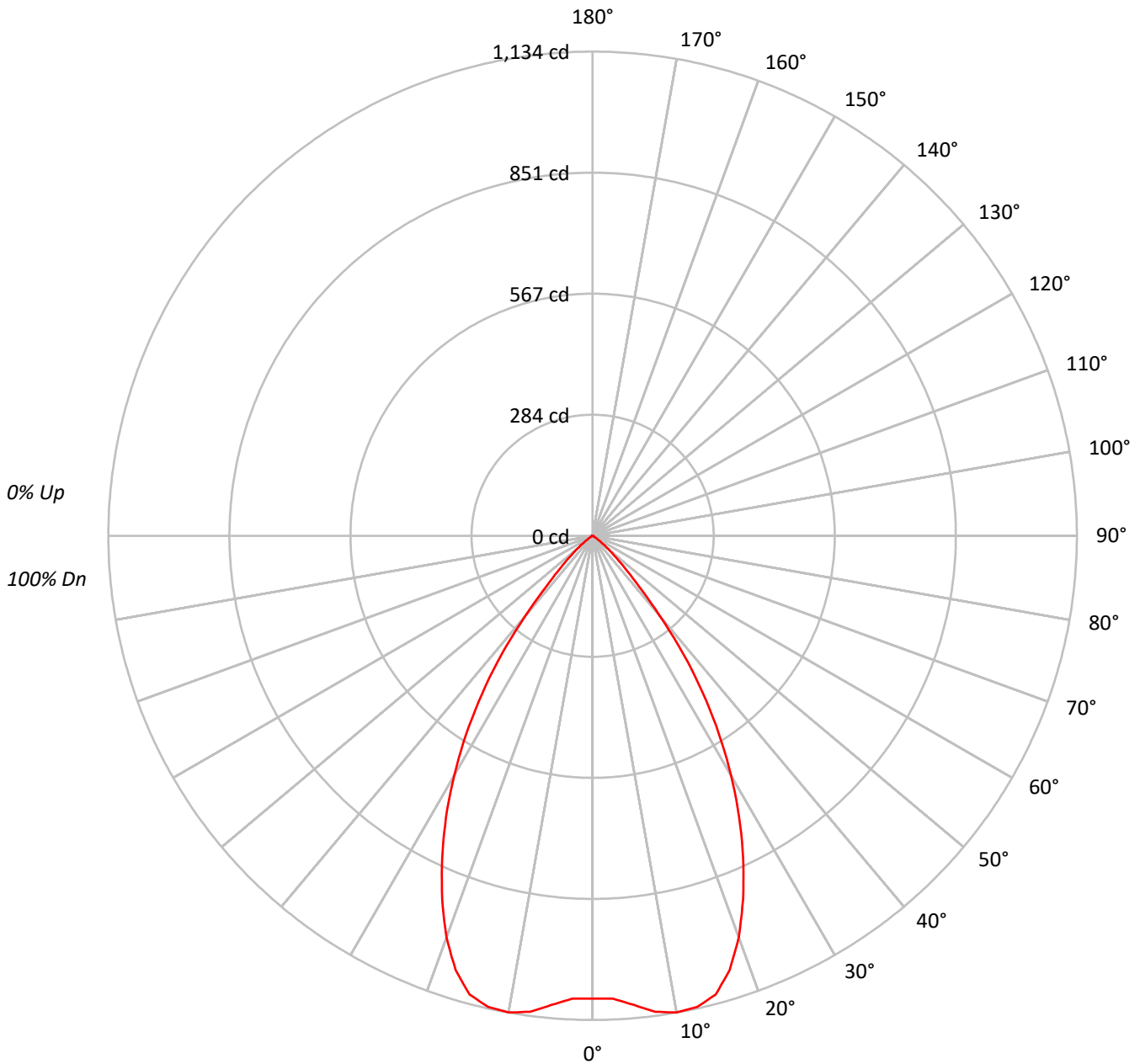
Input Watts (W): 14
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P579905

CATALOG NUMBER: HC4R15D010-HM40525927-42RMDC

Luminous Intensity Polar Plot





TEST NUMBER: P579905

CATALOG NUMBER: HC4R15D010-HM40525927-42RMDC

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	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°	133707
5°	136570
10°	141969
15°	142024
20°	131301
25°	113478
30°	92307
35°	67820
40°	39191
45°	18298
50°	8462
55°	2925
60°	937
65°	671
70°	541
75°	381
80°	0
85°	0



TEST NUMBER: P579905

CATALOG NUMBER: HC4R15D010-HM40525927-42RMDC

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.4	9.0
10°-20°	308.2	26.1
20°-30°	379.6	32.2
30°-40°	277.1	23.5
40°-50°	90.3	7.7
50°-60°	15.0	1.3
60°-70°	2.4	0.2
70°-80°	0.8	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°	794.2	67.3
0°-40°	1071.4	90.8
0°-60°	1176.7	99.7
0°-90°	1179.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1179.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1084	
5°	1103	106
15°	1112	308
25°	834	380
35°	450	277
45°	105	90
55°	14	15
65°	2	2
75°	1	1
85°	0	0
90°	0	



TEST NUMBER: P579905

CATALOG NUMBER: HC4R15D010-HM40525927-42RMDC

CANDELA DISTRIBUTION (FULL):

0°	
0°	1084.0
2.5°	1084.8
5°	1103.0
7.5°	1124.4
10°	1133.5
12.5°	1130.4
15°	1112.2
17.5°	1066.5
20°	1000.3
22.5°	920.5
25°	833.8
27.5°	743.3
30°	648.1
32.5°	550.8
35°	450.4
37.5°	349.2
40°	243.4
42.5°	159.0
45°	104.9
47.5°	69.2
50°	44.1
52.5°	25.8
55°	13.6
57.5°	5.3
60°	3.8
62.5°	3.1
65°	2.3
67.5°	1.5
70°	1.5
72.5°	0.8
75°	0.8
77.5°	0.8
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)