

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: P580402

Luminaire Tested: **HC435D010-HM43040827-41NDH**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580402
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-2)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC435D010-HM43040827-41NDH
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" NARROW DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3015.1 lumens
Efficiency: N/A
Efficacy: 89.5 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 0.89 / 0.91
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

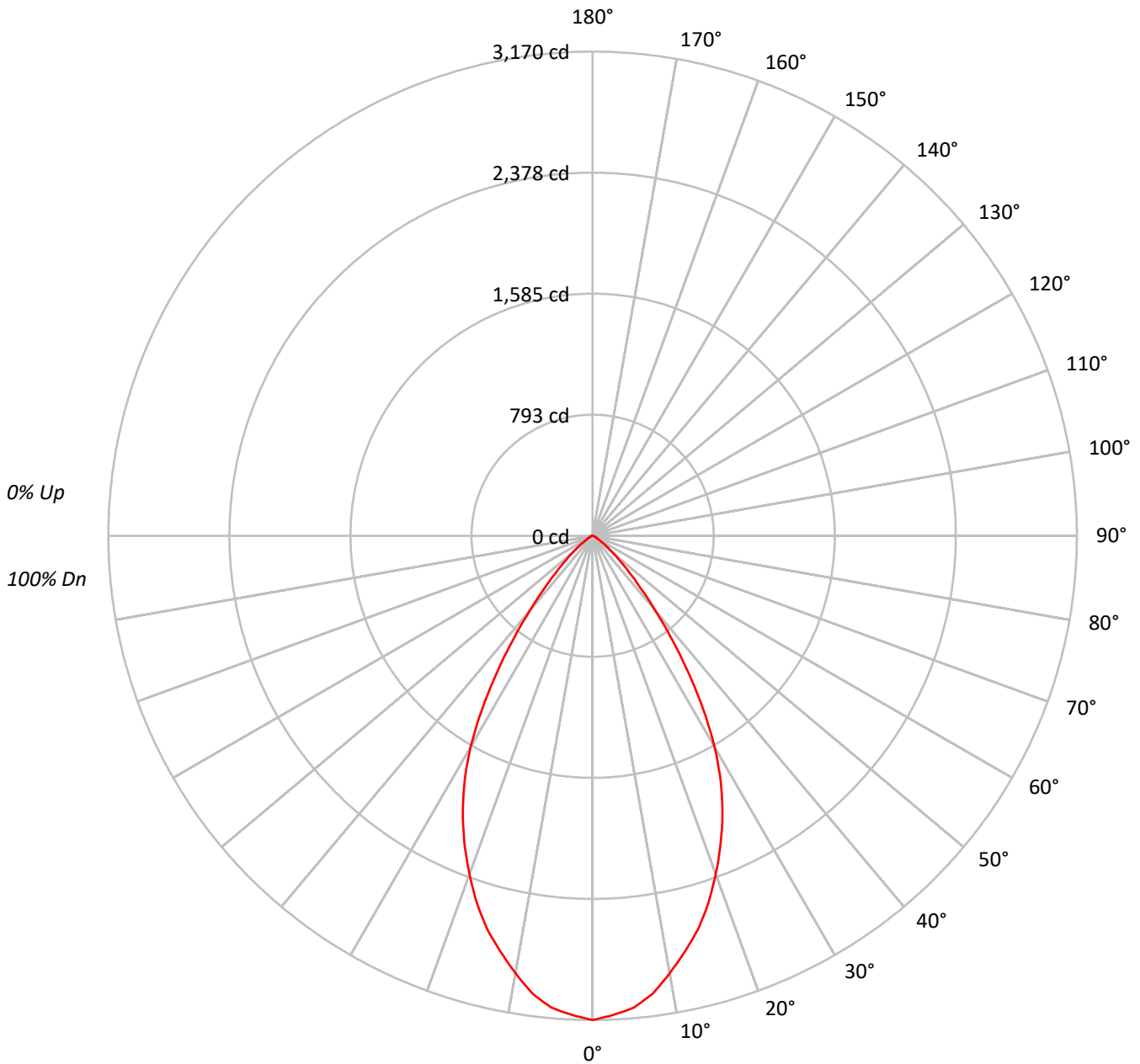
Input Watts (W): 33.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P580402

CATALOG NUMBER: HC435D010-HM43040827-41NDH

Luminous Intensity Polar Plot





TEST NUMBER: P580402

CATALOG NUMBER: HC435D010-HM43040827-41NDH

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	100	100	100
1	113	110	108	105	111	108	106	104	104	102	100	100	99	97	97	96	95	93	93	93	93
2	107	102	98	94	105	100	96	93	97	94	91	94	91	89	91	89	87	86	86	86	86
3	101	95	89	85	99	93	88	84	91	86	83	88	85	82	86	83	81	79	79	79	79
4	96	88	82	78	94	87	81	77	85	80	76	83	79	75	81	77	74	73	73	73	73
5	91	82	76	71	89	81	75	71	79	74	70	77	73	70	76	72	69	67	67	67	67
6	86	76	70	66	84	76	70	65	74	69	65	73	68	64	71	67	64	63	63	63	63
7	81	72	65	61	80	71	65	61	70	64	60	68	64	60	67	63	60	58	58	58	58
8	77	67	61	57	76	67	61	56	65	60	56	64	59	56	63	59	56	54	54	54	54
9	73	63	57	53	72	63	57	53	62	56	52	61	56	52	60	55	52	51	51	51	51
10	70	59	53	49	69	59	53	49	58	53	49	57	52	49	57	52	49	48	48	48	48

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	391067
5°	383956
10°	364185
15°	340529
20°	309266
25°	273664
30°	227627
35°	164159
40°	102455
45°	59099
50°	33351
55°	15870
60°	9103
65°	6975
70°	4688
75°	3098
80°	3125
85°	2972



TEST NUMBER: P580402

CATALOG NUMBER: HC435D010-HM43040827-41NDH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	289.9	9.6
10°-20°	743.9	24.7
20°-30°	914.9	30.3
30°-40°	679.5	22.5
40°-50°	276.3	9.2
50°-60°	76.5	2.5
60°-70°	23.8	0.8
70°-80°	8.0	0.3
80°-90°	2.3	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°	1948.7	64.6
0°-40°	2628.2	87.2
0°-60°	2980.9	98.9
0°-90°	3015.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3015.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3170	
5°	3101	290
15°	2667	744
25°	2011	915
35°	1090	680
45°	339	276
55°	74	77
65°	24	24
75°	6	8
85°	2	2
90°	0	



TEST NUMBER: P580402

CATALOG NUMBER: HC435D010-HM43040827-41NDH

CANDELA DISTRIBUTION (FULL):

	0°
0°	3170.5
2.5°	3140.1
5°	3101.0
7.5°	3022.8
10°	2907.7
12.5°	2788.3
15°	2666.7
17.5°	2521.1
20°	2356.1
22.5°	2188.9
25°	2010.8
27.5°	1817.6
30°	1598.2
32.5°	1348.6
35°	1090.2
37.5°	846.9
40°	636.3
42.5°	464.7
45°	338.8
47.5°	243.2
50°	173.8
52.5°	119.5
55°	73.8
57.5°	47.8
60°	36.9
62.5°	30.3
65°	23.9
67.5°	17.4
70°	13.0
72.5°	10.9
75°	6.5
77.5°	4.4
80°	4.4
82.5°	2.1
85°	2.1
87.5°	2.1
90°	0.0



Report Generated By 670245859 / DESKTOP-HRDQ47P





— 0°-180°







(END OF REPORT)