

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: P580426

Luminaire Tested: **HC435D010-HM43040830-41MDW**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580426
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-6)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC435D010-HM43040830-41MDW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" MEDIUM DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3393.5 lumens
Efficiency: N/A
Efficacy: 100.7 lumens/watt
Spacing Criteria (0/90/45): 1.04 / 1.04 / 1.01
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

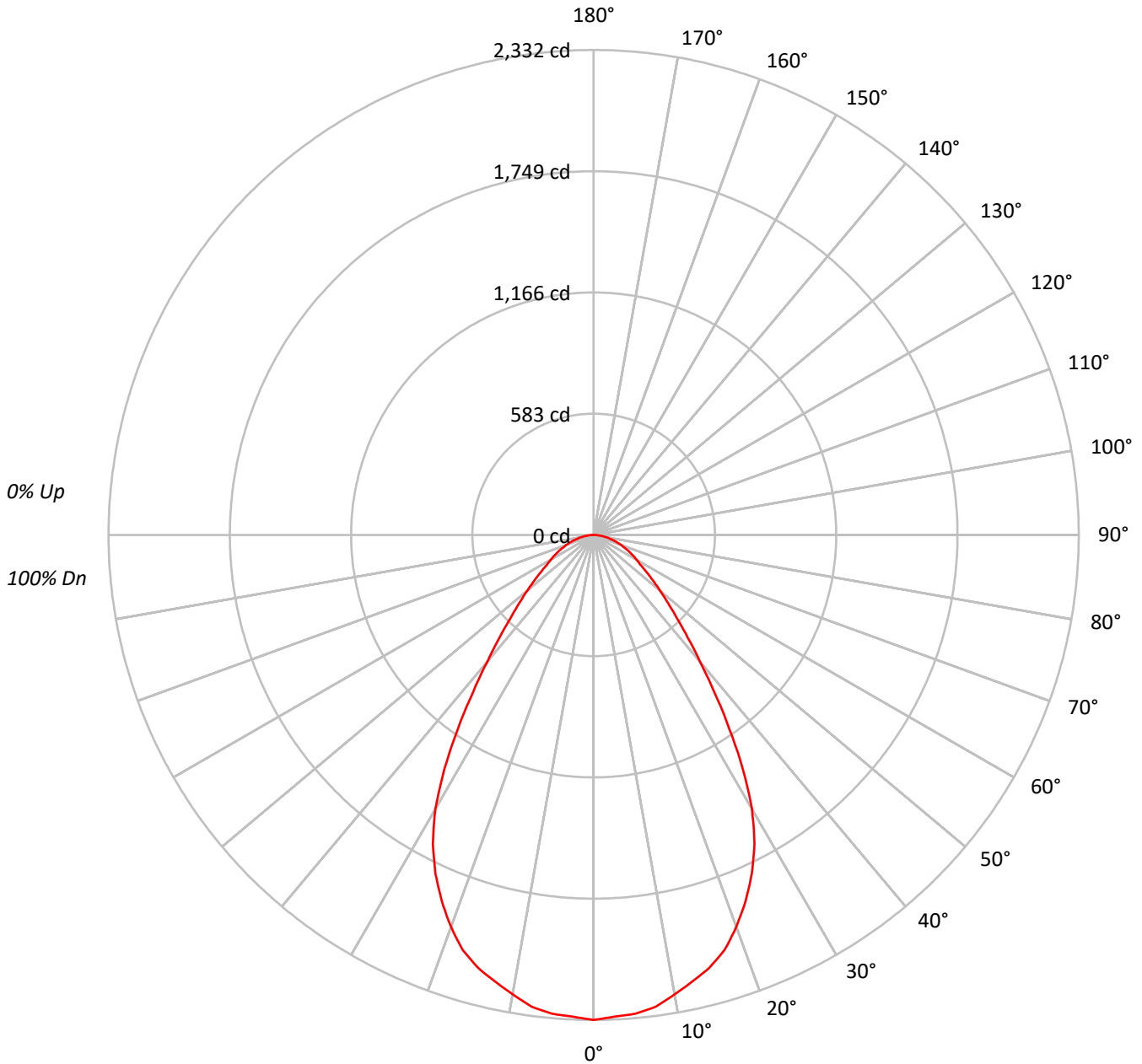
Input Watts (W): 33.7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P580426

CATALOG NUMBER: HC435D010-HM43040830-41MDW

Luminous Intensity Polar Plot





TEST NUMBER: P580426

CATALOG NUMBER: HC435D010-HM43040830-41MDW

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	111	108	104	101	109	105	102	100	101	99	97	97	95	94	94	92	91	89			
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79			
3	97	88	82	76	94	87	81	76	84	79	75	81	77	73	79	75	72	70			
4	90	80	73	68	88	79	73	67	77	71	67	75	70	66	73	68	65	63			
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	63	59	57			
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	54	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	46	42	52	46	42	51	46	42	40			
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	287704
5°	286178
10°	280957
15°	275033
20°	263272
25°	244797
30°	216675
35°	171011
40°	127976
45°	98452
50°	79865
55°	66234
60°	58589
65°	54228
70°	50021
75°	45941
80°	41767
85°	33258



TEST NUMBER: P580426

CATALOG NUMBER: HC435D010-HM43040830-41MDW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	218.5	6.4
10°-20°	604.0	17.8
20°-30°	820.1	24.2
30°-40°	710.4	20.9
40°-50°	446.0	13.1
50°-60°	280.6	8.3
60°-70°	184.3	5.4
70°-80°	101.7	3.0
80°-90°	27.8	0.8
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°	1642.7	48.4
0°-40°	2353.1	69.3
0°-60°	3079.7	90.8
0°-90°	3393.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3393.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2332	
5°	2311	219
15°	2154	604
25°	1799	820
35°	1136	710
45°	564	446
55°	308	281
65°	186	184
75°	96	102
85°	24	28
90°	0	



TEST NUMBER: P580426

CATALOG NUMBER: HC435D010-HM43040830-41MDW

CANDELA DISTRIBUTION (FULL):

	0°
0°	2332.5
2.5°	2318.4
5°	2311.3
7.5°	2287.8
10°	2243.2
12.5°	2198.4
15°	2153.8
17.5°	2092.7
20°	2005.7
22.5°	1906.9
25°	1798.7
27.5°	1674.1
30°	1521.3
32.5°	1335.5
35°	1135.7
37.5°	952.3
40°	794.8
42.5°	670.1
45°	564.4
47.5°	484.3
50°	416.2
52.5°	357.4
55°	308.0
57.5°	265.7
60°	237.5
62.5°	211.6
65°	185.8
67.5°	159.8
70°	138.7
72.5°	115.2
75°	96.4
77.5°	75.2
80°	58.8
82.5°	40.0
85°	23.5
87.5°	9.4
90°	0.0



Report Generated By 670245859 / DESKTOP-HRDQ47P





— 0°-180°







(END OF REPORT)