

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: P580414

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

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580414
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-10)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC435D010-HM43040827-41WDWB
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3505.9 lumens
Efficiency: N/A
Efficacy: 104.0 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.14 / 1.07
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

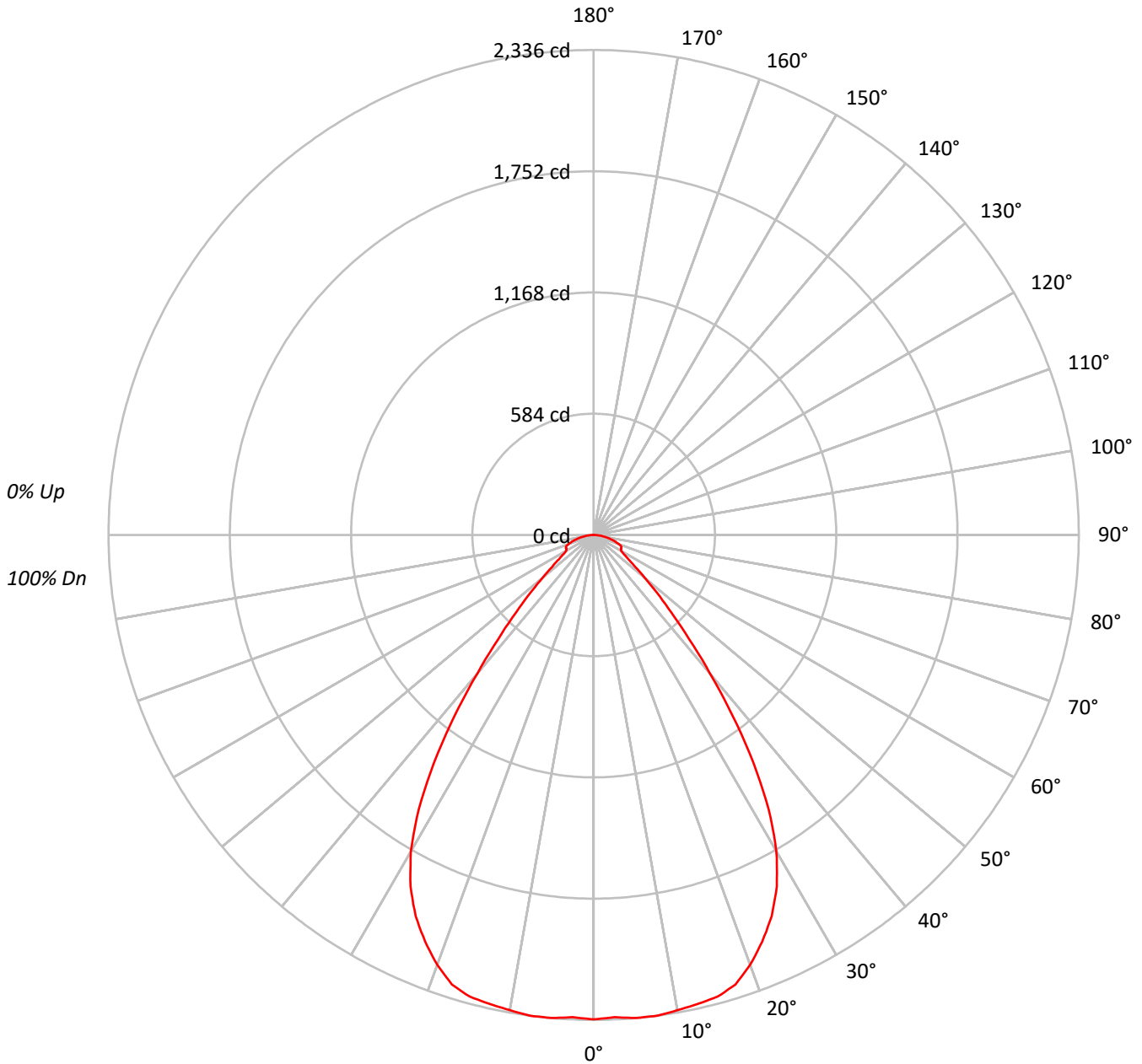
Input Watts (W): 33.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P580414

CATALOG NUMBER: HC435D010-HM43040827-41WDWB

Luminous Intensity Polar Plot





TEST NUMBER: P580414

CATALOG NUMBER: HC435D010-HM43040827-41WDWB

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	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90			
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	80			
3	98	89	83	78	95	88	82	78	85	80	76	83	78	75	80	77	74	72			
4	91	82	75	70	89	81	74	69	78	73	69	76	72	68	74	70	67	65			
5	86	75	68	63	84	74	68	63	72	67	62	71	65	61	69	64	61	59			
6	80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	59	56	54			
7	76	64	57	52	74	64	57	52	62	56	52	61	56	51	60	55	51	49			
8	71	60	53	48	70	59	53	48	58	52	48	57	51	47	56	51	47	46			
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42			
10	64	52	46	41	62	52	45	41	51	45	41	50	45	41	49	44	41	39			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	287827
5°	289199
10°	291178
15°	294098
20°	289196
25°	275882
30°	250672
35°	202180
40°	140277
45°	92085
50°	61712
55°	43913
60°	37522
65°	43108
70°	46198
75°	44512
80°	40133
85°	36938



TEST NUMBER: P580414

CATALOG NUMBER: HC435D010-HM43040827-41WDWB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	222.6	6.3
10°-20°	647.0	18.5
20°-30°	924.4	26.4
30°-40°	825.8	23.6
40°-50°	423.5	12.1
50°-60°	192.5	5.5
60°-70°	143.5	4.1
70°-80°	97.7	2.8
80°-90°	29.0	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°	1793.9	51.2
0°-40°	2619.7	74.7
0°-60°	3235.7	92.3
0°-90°	3505.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3505.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2334	
5°	2336	223
15°	2303	647
25°	2027	924
35°	1343	826
45°	528	424
55°	204	193
65°	148	144
75°	93	98
85°	26	29
90°	0	



TEST NUMBER: P580414

CATALOG NUMBER: HC435D010-HM43040827-41WDWB

CANDELA DISTRIBUTION (FULL):

	0°
0°	2333.5
2.5°	2324.8
5°	2335.7
7.5°	2335.7
10°	2324.8
12.5°	2314.0
15°	2303.1
17.5°	2270.5
20°	2203.2
22.5°	2120.5
25°	2027.1
27.5°	1909.8
30°	1760.0
32.5°	1568.8
35°	1342.7
37.5°	1101.5
40°	871.2
42.5°	680.0
45°	527.9
47.5°	412.8
50°	321.6
52.5°	252.0
55°	204.2
57.5°	171.6
60°	152.1
62.5°	147.7
65°	147.7
67.5°	143.4
70°	128.1
72.5°	110.8
75°	93.4
77.5°	73.8
80°	56.5
82.5°	41.3
85°	26.1
87.5°	10.9
90°	0.0



Report Generated By 670245859 / DESKTOP-HRDQ47P





— 0°-180°







(END OF REPORT)