

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: P580499

Luminaire Tested: **HC435D010-HM43040930-41NDW**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580499
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-3)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC435D010-HM43040930-41NDW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" NARROW DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2772.1 lumens
Efficiency: N/A
Efficacy: 82.3 lumens/watt
Spacing Criteria (0/90/45): 1.03 / 1.03 / 1.01
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

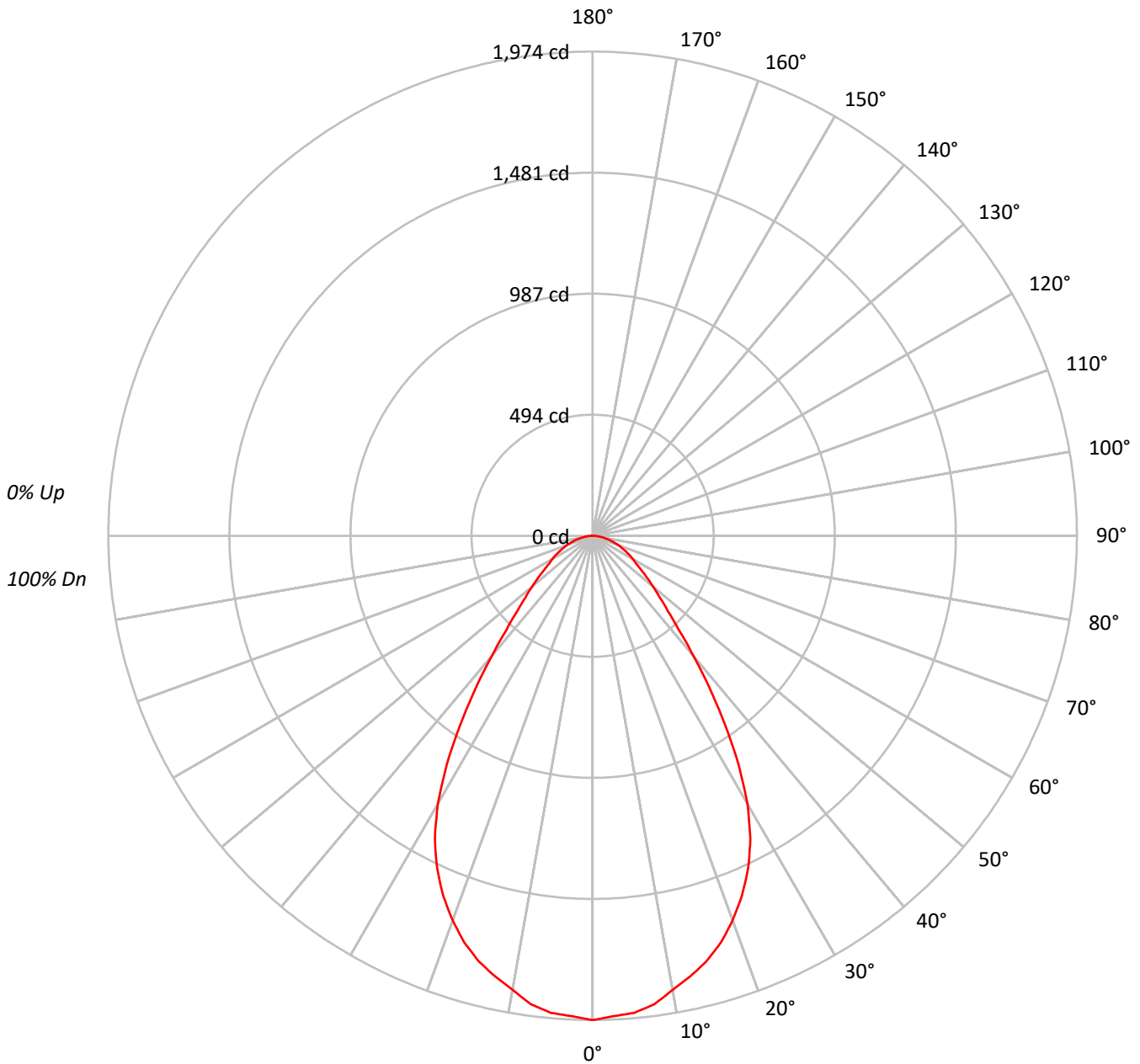
Input Watts (W): 33.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P580499

CATALOG NUMBER: HC435D010-HM43040930-41NDW

Luminous Intensity Polar Plot





TEST NUMBER: P580499

CATALOG NUMBER: HC435D010-HM43040930-41NDW

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
1	111	108	104	101	109	105	102	100	101	99	97	98	96	94	94	92	91	89			89
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79			79
3	97	88	82	77	95	87	81	76	84	79	75	82	77	74	79	76	73	71			71
4	90	81	74	68	88	80	73	68	77	72	67	75	70	66	73	69	65	64			64
5	85	74	67	61	83	73	66	61	71	65	60	69	64	60	68	63	59	58			58
6	79	68	61	56	78	67	60	55	66	60	55	64	59	55	63	58	54	52			52
7	75	63	56	51	73	62	56	51	61	55	50	60	54	50	59	53	50	48			48
8	70	59	52	47	69	58	51	46	57	51	46	56	50	46	55	50	46	44			44
9	66	55	48	43	65	54	47	43	53	47	43	52	47	43	51	46	42	41			41
10	63	51	44	40	62	51	44	40	50	44	40	49	43	39	48	43	39	38			38

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	243534
5°	241728
10°	235442
15°	229229
20°	218971
25°	204009
30°	179629
35°	141678
40°	102841
45°	75566
50°	61463
55°	51547
60°	46723
65°	42933
70°	39959
75°	36458
80°	32888
85°	28446



TEST NUMBER: P580499

CATALOG NUMBER: HC435D010-HM43040930-41NDW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	184.1	6.6
10°-20°	503.5	18.2
20°-30°	682.6	24.6
30°-40°	585.7	21.1
40°-50°	345.8	12.5
50°-60°	219.1	7.9
60°-70°	147.2	5.3
70°-80°	81.3	2.9
80°-90°	22.8	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°	1370.1	49.4
0°-40°	1955.8	70.6
0°-60°	2520.8	90.9
0°-90°	2772.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2772.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1974	
5°	1952	184
15°	1795	504
25°	1499	683
35°	941	586
45°	433	346
55°	240	219
65°	147	147
75°	76	81
85°	20	23
90°	0	



TEST NUMBER: P580499

CATALOG NUMBER: HC435D010-HM43040930-41NDW

CANDELA DISTRIBUTION (FULL):

	0°
0°	1974.4
2.5°	1960.4
5°	1952.3
7.5°	1926.1
10°	1879.8
12.5°	1839.4
15°	1795.1
17.5°	1738.7
20°	1668.2
22.5°	1589.7
25°	1499.0
27.5°	1392.2
30°	1261.2
32.5°	1106.1
35°	940.9
37.5°	781.7
40°	638.7
42.5°	519.8
45°	433.2
47.5°	370.7
50°	320.3
52.5°	278.1
55°	239.7
57.5°	209.5
60°	189.4
62.5°	169.3
65°	147.1
67.5°	128.9
70°	110.8
72.5°	92.7
75°	76.5
77.5°	60.5
80°	46.3
82.5°	32.3
85°	20.1
87.5°	8.1
90°	0.0



Report Generated By 670245859 / DESKTOP-HRDQ47P





— 0°-180°







(END OF REPORT)