

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: P580519

Luminaire Tested: **HC435D010-HM43040935-41WDW**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580519
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-9)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC435D010-HM43040935-41WDW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3130.8 lumens
Efficiency: N/A
Efficacy: 92.9 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.07 / 1.04
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

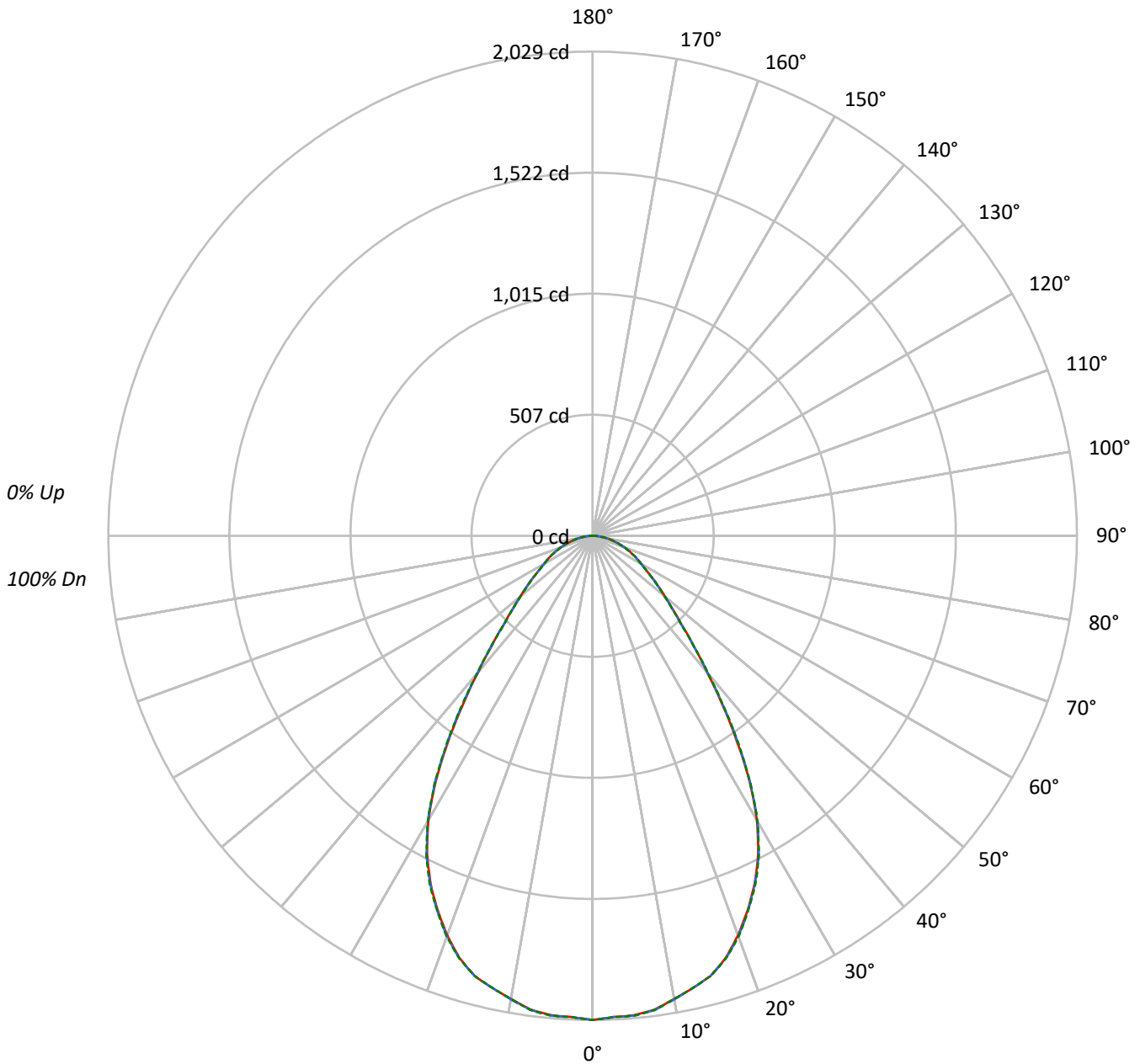
Input Watts (W): 33.7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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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	107	104	101	108	105	102	99	101	98	96	97	95	93	94	92	90	89			89
2	103	97	91	87	101	95	90	86	91	87	84	88	85	82	85	83	80	78			78
3	96	87	81	76	94	86	80	75	83	78	74	81	76	72	78	74	71	69			69
4	90	80	72	67	87	78	72	66	76	70	66	74	69	65	72	68	64	62			62
5	84	73	65	60	82	72	65	59	70	64	59	68	63	58	66	62	58	56			56
6	78	67	59	54	77	66	59	54	64	58	53	63	57	53	61	56	53	51			51
7	73	62	54	49	72	61	54	49	60	53	49	58	53	48	57	52	48	46			46
8	69	57	50	45	68	57	50	45	55	49	45	54	49	44	53	48	44	42			42
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	45	41	39			39
10	61	50	43	38	60	49	43	38	48	42	38	48	42	38	47	42	38	36			36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	250305	250305	250305
5°	249701	249949	249949
10°	246790	247053	246790
15°	243837	243837	243837
20°	233816	234381	234643
25°	218708	218993	219565
30°	195966	196578	196578
35°	159115	160365	160681
40°	120086	120746	121100
45°	91981	91597	91597
50°	75797	75375	75375
55°	65052	64600	64600
60°	58046	57504	57504
65°	54549	54549	54549
70°	50742	50742	50742
75°	46084	47038	46084
80°	43258	41767	43258
85°	35664	35664	35664



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	191.2	6.1
10°-20°	535.0	17.1
20°-30°	735.2	23.5
30°-40°	661.1	21.1
40°-50°	417.7	13.3
50°-60°	272.7	8.7
60°-70°	184.7	5.9
70°-80°	104.0	3.3
80°-90°	29.2	0.9
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°	1461.4	46.7
0°-40°	2122.5	67.8
0°-60°	2812.9	89.8
0°-90°	3130.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3130.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2029	2029	2029	2029	2029	
5°	2017	2017	2019	2019	2019	191
15°	1910	1910	1910	1910	1910	535
25°	1607	1609	1609	1613	1613	733
35°	1057	1061	1065	1069	1067	658
45°	527	525	525	525	525	418
55°	302	302	300	302	300	274
65°	187	187	187	187	187	185
75°	97	99	99	99	97	104
85°	25	25	25	25	25	29
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2029.3	2029.3	2029.3	2029.3	2029.3
2.5°	2018.7	2018.7	2018.7	2018.7	2018.7
5°	2016.7	2016.7	2018.7	2018.7	2018.7
7.5°	2002.0	2004.0	2004.0	2004.0	2004.0
10°	1970.4	1970.4	1972.5	1972.5	1970.4
12.5°	1941.0	1941.0	1941.0	1943.1	1941.0
15°	1909.5	1909.5	1909.5	1909.5	1909.5
17.5°	1854.9	1857.0	1857.0	1857.0	1857.0
20°	1781.3	1785.6	1785.6	1787.6	1787.6
22.5°	1697.4	1699.5	1701.5	1703.6	1701.5
25°	1607.0	1609.1	1609.1	1613.3	1613.3
27.5°	1502.0	1504.0	1508.3	1508.3	1508.3
30°	1375.9	1378.0	1380.2	1380.2	1380.2
32.5°	1226.7	1226.7	1231.0	1233.1	1231.0
35°	1056.7	1060.8	1065.0	1069.3	1067.1
37.5°	894.9	899.1	901.2	901.2	903.2
40°	745.8	749.9	749.9	754.1	752.1
42.5°	628.1	626.0	626.0	630.2	628.1
45°	527.3	525.1	525.1	525.1	525.1
47.5°	453.8	451.6	451.6	451.6	451.6
50°	395.0	392.8	392.8	392.8	392.8
52.5°	346.6	344.5	344.5	344.5	342.4
55°	302.5	302.5	300.4	302.5	300.4
57.5°	262.6	262.6	262.6	262.6	262.6
60°	235.3	233.1	233.1	233.1	233.1
62.5°	210.1	210.1	210.1	210.1	210.1
65°	186.9	186.9	186.9	186.9	186.9
67.5°	163.9	161.7	163.9	163.9	161.7
70°	140.7	138.6	140.7	140.7	140.7
72.5°	117.7	117.7	117.7	119.7	117.7
75°	96.7	98.7	98.7	98.7	96.7
77.5°	77.7	79.8	77.7	77.7	77.7
80°	60.9	58.8	58.8	58.8	60.9
82.5°	42.0	42.0	42.0	42.0	42.0
85°	25.2	25.2	25.2	25.2	25.2
87.5°	10.5	10.5	10.5	10.5	10.5
90°	0.0	0.0	0.0	0.0	0.0



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— 0°-180° - - 45°-225° - - - - 90°-270°







(END OF REPORT)