

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: P592792

Luminaire Tested: **HC435D010-HM43040950-41NDW**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P592792
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-HM43040950-41NDW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" NARROW DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2889.3 lumens
Efficiency: N/A
Efficacy: 85.7 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

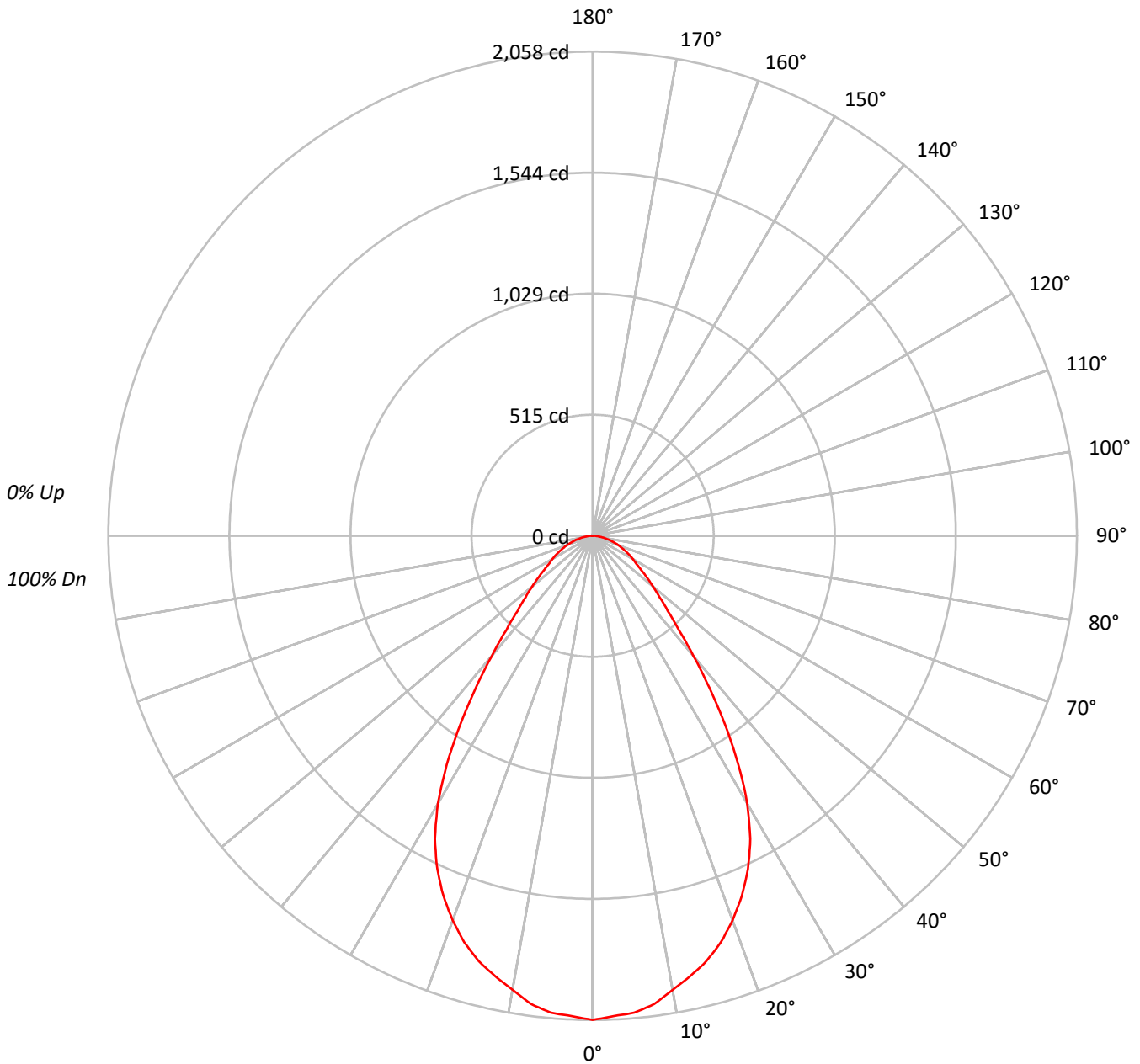
Input Watts (W): 33.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	253833
5°	251955
10°	245387
15°	238921
20°	228225
25°	212638
30°	187221
35°	147671
40°	107172
45°	78758
50°	64073
55°	53740
60°	48697
65°	44742
70°	41654
75°	38030
80°	34308
85°	29720



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	191.9	6.6
10°-20°	524.8	18.2
20°-30°	711.4	24.6
30°-40°	610.5	21.1
40°-50°	360.5	12.5
50°-60°	228.4	7.9
60°-70°	153.5	5.3
70°-80°	84.7	2.9
80°-90°	23.7	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°	1428.1	49.4
0°-40°	2038.5	70.6
0°-60°	2627.4	90.9
0°-90°	2889.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2889.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2058	
5°	2035	192
15°	1871	525
25°	1562	711
35°	981	610
45°	452	360
55°	250	228
65°	153	153
75°	80	85
85°	21	24
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	2057.9
2.5°	2043.2
5°	2034.9
7.5°	2007.6
10°	1959.2
12.5°	1917.2
15°	1871.0
17.5°	1812.2
20°	1738.7
22.5°	1656.9
25°	1562.4
27.5°	1451.1
30°	1314.5
32.5°	1152.9
35°	980.7
37.5°	814.8
40°	665.6
42.5°	541.8
45°	451.5
47.5°	386.4
50°	333.9
52.5°	289.8
55°	249.9
57.5°	218.4
60°	197.4
62.5°	176.4
65°	153.3
67.5°	134.4
70°	115.5
72.5°	96.6
75°	79.8
77.5°	62.9
80°	48.3
82.5°	33.6
85°	21.0
87.5°	8.4
90°	0.0



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— 0°-180°







(END OF REPORT)