

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: P580534

Luminaire Tested: **HC435D010-HM43040940-41MDW**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580534
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-HM43040940-41MDW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" MEDIUM DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3032.1 lumens
Efficiency: N/A
Efficacy: 90.0 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

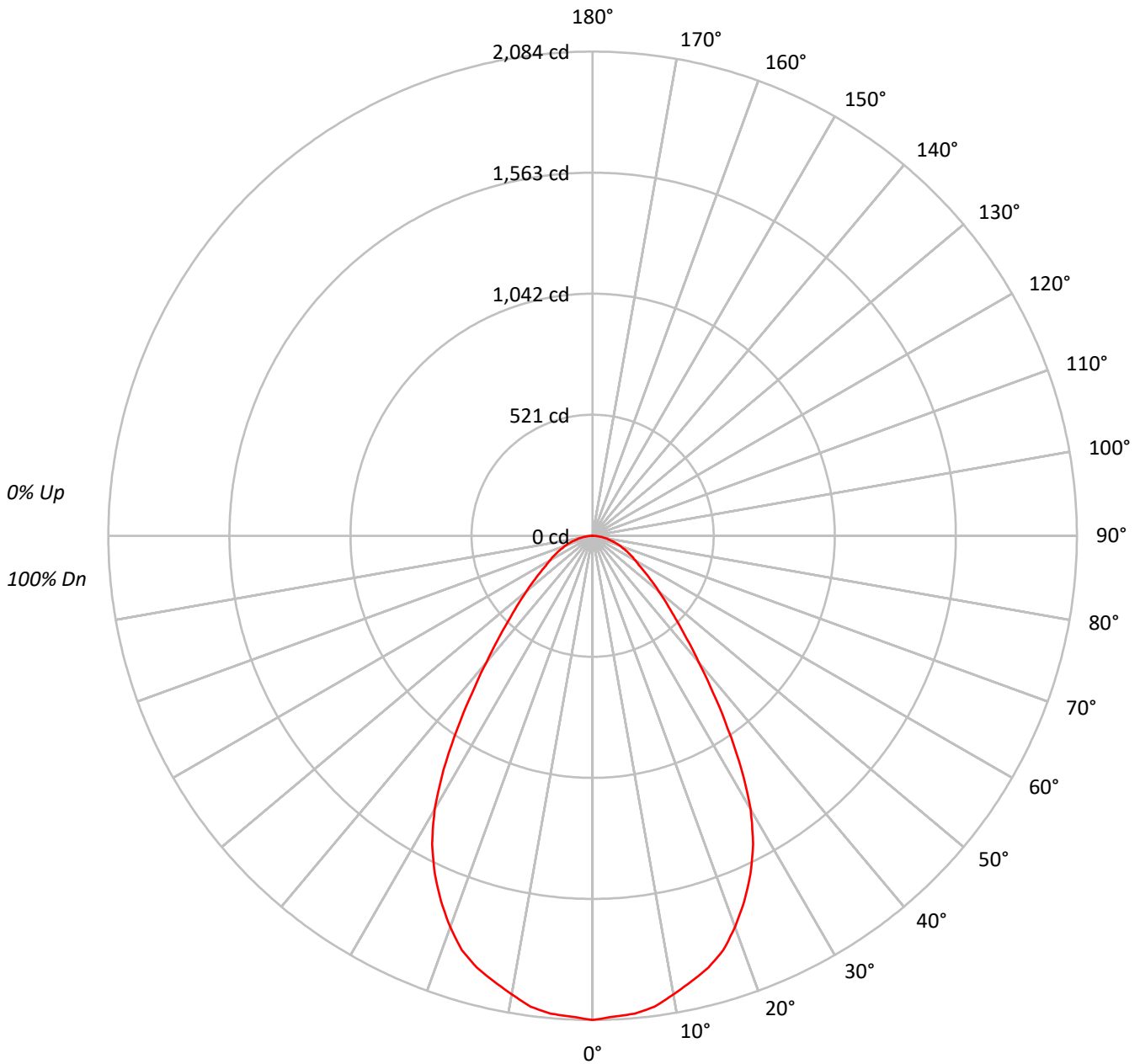
Input Watts (W): 33.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	100
1	111	108	104	101	109	105	102	100	101	99	97	97	95	94	94	92	91	89	89	89	89
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79	79	79	79
3	97	88	82	76	94	87	81	76	84	79	75	81	77	73	79	75	72	70	70	70	70
4	90	80	73	68	88	79	73	67	77	71	67	75	70	66	73	68	65	63	63	63	63
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	63	59	57	57	57	57
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	54	52	52	52	52
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47	47	47	47
8	70	58	51	46	68	58	51	46	56	50	46	55	50	45	54	49	45	44	44	44	44
9	66	54	47	42	65	54	47	42	53	46	42	52	46	42	51	46	42	40	40	40	40
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37	37	37	37

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	257052
5°	255694
10°	251023
15°	245740
20°	235221
25°	218721
30°	193601
35°	152791
40°	114338
45°	87951
50°	71345
55°	59181
60°	52348
65°	48449
70°	44719
75°	41033
80°	37292
85°	29720



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	195.2	6.4
10°-20°	539.7	17.8
20°-30°	732.8	24.2
30°-40°	634.8	20.9
40°-50°	398.5	13.1
50°-60°	250.7	8.3
60°-70°	164.7	5.4
70°-80°	90.8	3.0
80°-90°	24.8	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°	1467.7	48.4
0°-40°	2102.4	69.3
0°-60°	2751.6	90.8
0°-90°	3032.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3032.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2084	
5°	2065	195
15°	1924	540
25°	1607	733
35°	1015	635
45°	504	399
55°	275	251
65°	166	165
75°	86	91
85°	21	25
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	2084.0
2.5°	2071.4
5°	2065.1
7.5°	2044.1
10°	2004.2
12.5°	1964.3
15°	1924.4
17.5°	1869.8
20°	1792.0
22.5°	1703.8
25°	1607.1
27.5°	1495.8
30°	1359.3
32.5°	1193.2
35°	1014.7
37.5°	850.9
40°	710.1
42.5°	598.8
45°	504.2
47.5°	432.7
50°	371.8
52.5°	319.3
55°	275.2
57.5°	237.4
60°	212.2
62.5°	189.1
65°	166.0
67.5°	142.9
70°	124.0
72.5°	103.0
75°	86.1
77.5°	67.2
80°	52.5
82.5°	35.7
85°	21.0
87.5°	8.4
90°	0.0



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— 0°-180°







(END OF REPORT)