

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: P580428

Luminaire Tested: **HC435D010-HM43040830-41PSMDW**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580428
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-12)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC435D010-HM43040830-41PSMDW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" PLASTIC TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3323.0 lumens
Efficiency: N/A
Efficacy: 98.6 lumens/watt
Spacing Criteria (0/90/45): 1.03 / 1.03 / 0.99
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

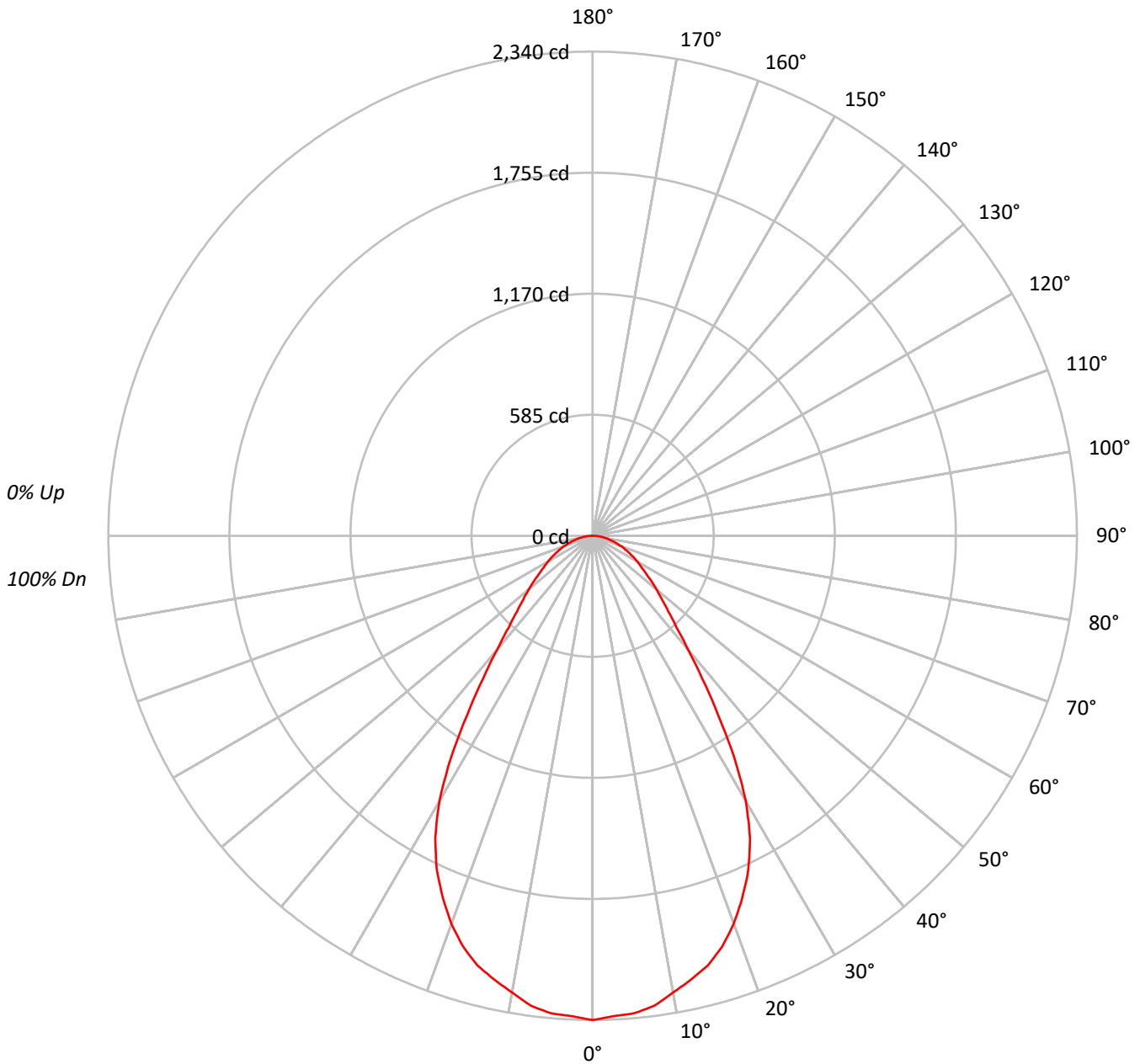
Input Watts (W): 33.7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			
1	111	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89			
2	103	97	91	87	101	95	90	86	92	88	84	89	85	82	86	83	80	78			
3	96	88	81	76	94	86	80	75	84	78	74	81	77	73	79	75	72	70			
4	90	80	73	68	88	79	72	67	77	71	66	74	69	65	72	68	65	63			
5	84	74	66	61	82	72	66	60	71	64	60	69	63	59	67	62	59	57			
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	53	52			
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47			
8	70	58	51	46	68	58	51	46	56	50	46	55	50	45	54	49	45	44			
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	40			
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	37			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	288641
5°	286834
10°	280732
15°	274523
20°	261841
25°	242375
30°	210821
35°	159190
40°	115384
45°	90167
50°	77083
55°	66686
60°	61451
65°	56242
70°	52545
75°	48134
80°	45034
85°	43306



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	218.8	6.6
10°-20°	602.2	18.1
20°-30°	809.8	24.4
30°-40°	665.8	20.0
40°-50°	408.9	12.3
50°-60°	283.0	8.5
60°-70°	193.0	5.8
70°-80°	107.5	3.2
80°-90°	34.2	1.0
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°	1630.7	49.1
0°-40°	2296.5	69.1
0°-60°	2988.4	89.9
0°-90°	3323.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3323.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2340	
5°	2317	219
15°	2150	602
25°	1781	810
35°	1057	666
45°	517	409
55°	310	283
65°	193	193
75°	101	107
85°	31	34
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2340.1
2.5°	2323.6
5°	2316.6
7.5°	2290.7
10°	2241.4
12.5°	2196.7
15°	2149.8
17.5°	2081.6
20°	1994.8
22.5°	1891.4
25°	1780.9
27.5°	1647.0
30°	1480.2
32.5°	1275.7
35°	1057.2
37.5°	869.3
40°	716.6
42.5°	599.1
45°	516.9
47.5°	453.4
50°	401.7
52.5°	354.7
55°	310.1
57.5°	277.3
60°	249.1
62.5°	220.9
65°	192.7
67.5°	169.2
70°	145.7
72.5°	122.2
75°	101.0
77.5°	79.9
80°	63.4
82.5°	47.0
85°	30.6
87.5°	16.4
90°	0.0



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— 0°-180°







(END OF REPORT)