

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: P592720

Luminaire Tested: **HC425D010-HM40525950-41NDW**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P592720  
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: HC425D010-HM40525950-41NDW  
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: 2110.5 lumens  
Efficiency: N/A  
Efficacy: 78.8 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

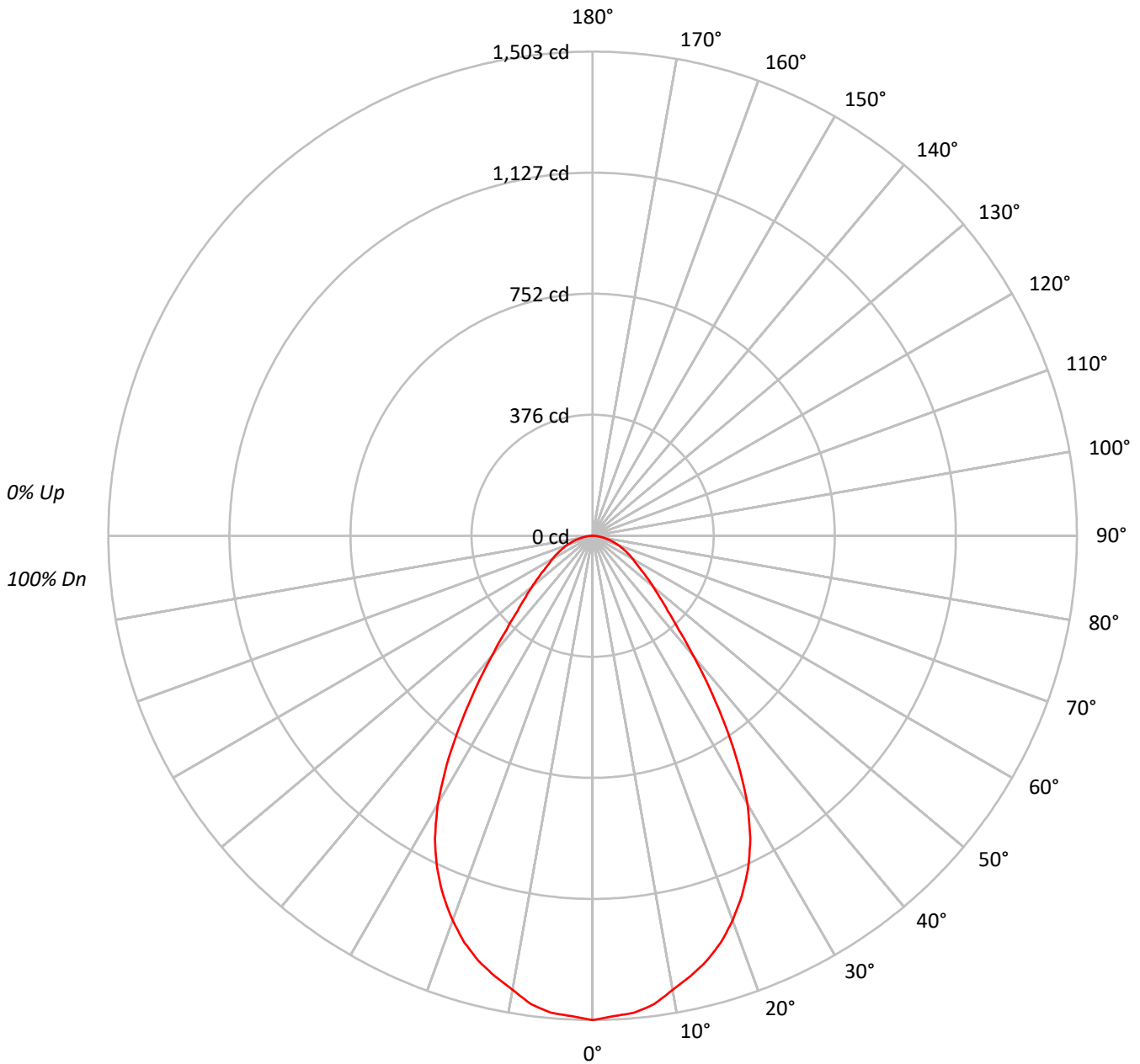
Input Watts (W): 26.8  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	185425
5°	184029
10°	179243
15°	174523
20°	166715
25°	155314
30°	136759
35°	107874
40°	78302
45°	57529
50°	46802
55°	39267
60°	35573
65°	32688
70°	30402
75°	27784
80°	25003
85°	21795



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	140.1	6.6
10°-20°	383.3	18.2
20°-30°	519.7	24.6
30°-40°	445.9	21.1
40°-50°	263.3	12.5
50°-60°	166.9	7.9
60°-70°	112.1	5.3
70°-80°	61.9	2.9
80°-90°	17.3	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°	1043.1	49.4
0°-40°	1489.1	70.6
0°-60°	1919.2	90.9
0°-90°	2110.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2110.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1503	
5°	1486	140
15°	1367	383
25°	1141	520
35°	716	446
45°	330	263
55°	183	167
65°	112	112
75°	58	62
85°	15	17
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1503.3
2.5°	1492.5
5°	1486.3
7.5°	1466.5
10°	1431.1
12.5°	1400.4
15°	1366.7
17.5°	1323.8
20°	1270.1
22.5°	1210.3
25°	1141.2
27.5°	1059.9
30°	960.2
32.5°	842.1
35°	716.4
37.5°	595.2
40°	486.3
42.5°	395.7
45°	329.8
47.5°	282.2
50°	243.9
52.5°	211.7
55°	182.6
57.5°	159.5
60°	144.2
62.5°	128.8
65°	112.0
67.5°	98.2
70°	84.3
72.5°	70.6
75°	58.3
77.5°	46.1
80°	35.2
82.5°	24.5
85°	15.4
87.5°	6.1
90°	0.0



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— 0°-180°







(END OF REPORT)