

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: P580157

Luminaire Tested: **HC425D010-HM40525835-41NDW**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P580157  
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-HM40525835-41NDW  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" NARROW DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2280.6 lumens  
Efficiency: N/A  
Efficacy: 85.1 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

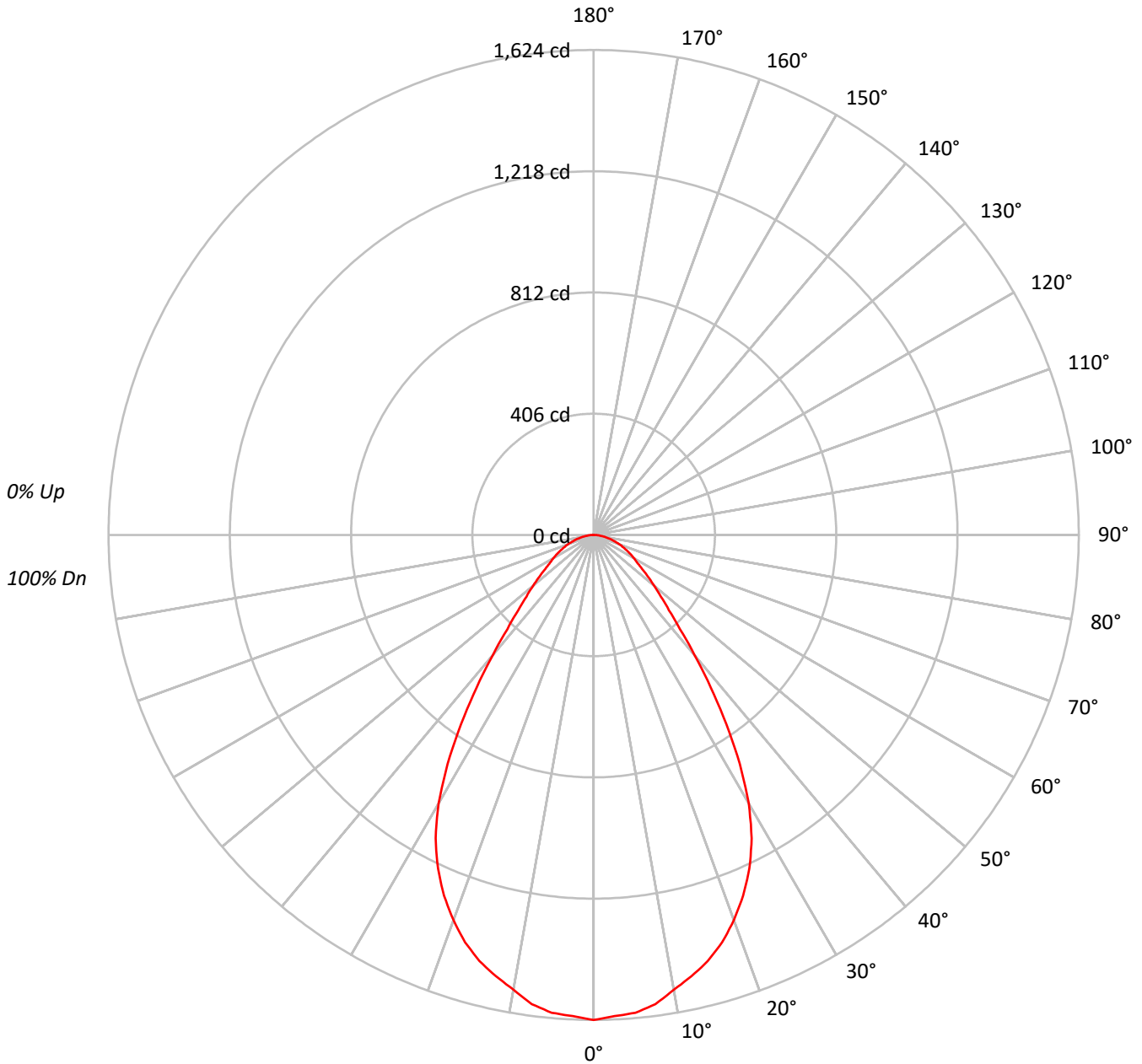
Input Watts (W): 26.8  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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			
1	111	108	104	101	109	105	102	100	101	99	97	98	96	94	94	92	91	89			
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79			
3	97	88	82	77	95	87	81	76	84	79	75	82	77	74	79	76	73	71			
4	90	81	74	68	88	80	73	68	77	72	67	75	70	66	73	69	65	64			
5	85	74	67	61	83	73	66	61	71	65	60	69	64	60	68	63	59	58			
6	79	68	61	56	78	67	60	55	66	60	55	64	59	55	63	58	54	52			
7	75	63	56	51	73	62	56	51	61	55	50	60	54	50	59	53	50	48			
8	70	59	52	47	69	58	51	46	57	51	46	56	50	46	55	50	46	44			
9	66	55	48	43	65	54	47	43	53	47	43	52	47	43	51	46	42	41			
10	63	51	44	40	62	51	44	40	50	44	40	49	43	39	48	43	39	38			

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	200363
5°	198875
10°	193697
15°	188608
20°	180157
25°	167835
30°	147797
35°	116547
40°	84598
45°	62169
50°	50563
55°	42407
60°	38434
65°	35315
70°	32890
75°	30024
80°	27134
85°	23493



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	151.4	6.6
10°-20°	414.3	18.2
20°-30°	561.5	24.6
30°-40°	481.9	21.1
40°-50°	284.5	12.5
50°-60°	180.3	7.9
60°-70°	121.1	5.3
70°-80°	66.9	2.9
80°-90°	18.7	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°	1127.2	49.4
0°-40°	1609.1	70.6
0°-60°	2073.9	90.9
0°-90°	2280.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2280.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1624	
5°	1606	151
15°	1477	414
25°	1233	562
35°	774	482
45°	356	285
55°	197	180
65°	121	121
75°	63	67
85°	17	19
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1624.4
2.5°	1612.9
5°	1606.2
7.5°	1584.7
10°	1546.5
12.5°	1513.4
15°	1477.0
17.5°	1430.4
20°	1372.5
22.5°	1307.8
25°	1233.2
27.5°	1145.4
30°	1037.7
32.5°	910.0
35°	774.0
37.5°	643.2
40°	525.4
42.5°	427.7
45°	356.4
47.5°	304.9
50°	263.5
52.5°	228.7
55°	197.2
57.5°	172.4
60°	155.8
62.5°	139.2
65°	121.0
67.5°	106.1
70°	91.2
72.5°	76.2
75°	63.0
77.5°	49.7
80°	38.2
82.5°	26.5
85°	16.6
87.5°	6.7
90°	0.0



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— 0°-180°







(END OF REPORT)