

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: P580121

Luminaire Tested: **HC425D010-HM40525827-41NDW**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P580121  
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-HM40525827-41NDW  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" NARROW DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2031.5 lumens  
Efficiency: N/A  
Efficacy: 75.8 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

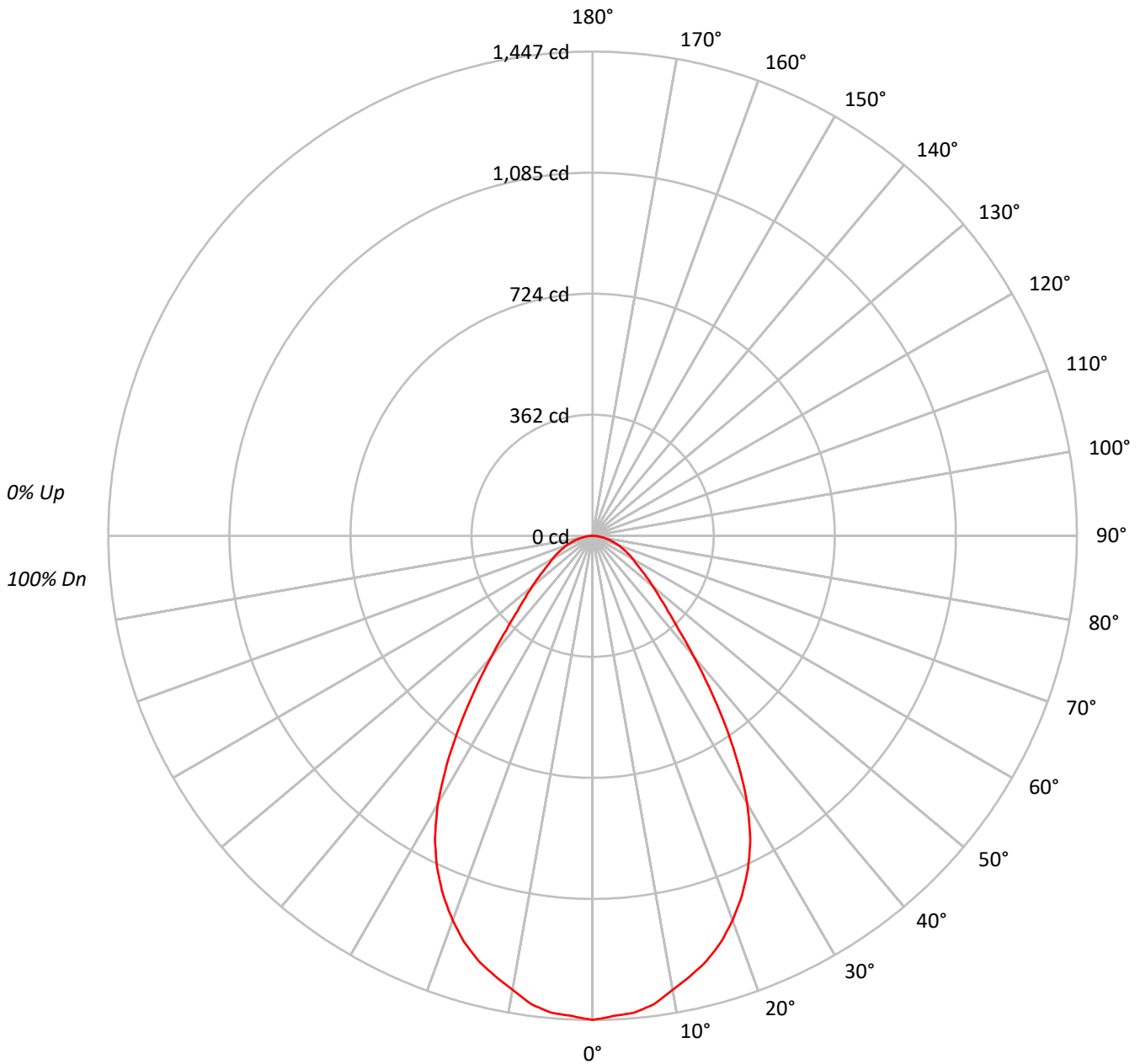
Input Watts (W): 26.8  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	178469
5°	177145
10°	172530
15°	167985
20°	160467
25°	149502
30°	131631
35°	103823
40°	75372
45°	55384
50°	45037
55°	37784
60°	34241
65°	31463
70°	29284
75°	26736
80°	24151
85°	20945



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	134.9	6.6
10°-20°	369.0	18.2
20°-30°	500.2	24.6
30°-40°	429.2	21.1
40°-50°	253.4	12.5
50°-60°	160.6	7.9
60°-70°	107.9	5.3
70°-80°	59.6	2.9
80°-90°	16.7	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°	1004.1	49.4
0°-40°	1433.3	70.6
0°-60°	1847.3	90.9
0°-90°	2031.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2031.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1447	
5°	1431	135
15°	1316	369
25°	1098	500
35°	690	429
45°	318	253
55°	176	161
65°	108	108
75°	56	60
85°	15	17
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1446.9
2.5°	1436.5
5°	1430.7
7.5°	1411.5
10°	1377.5
12.5°	1348.0
15°	1315.5
17.5°	1274.2
20°	1222.5
22.5°	1164.9
25°	1098.5
27.5°	1020.3
30°	924.2
32.5°	810.6
35°	689.5
37.5°	572.9
40°	468.1
42.5°	380.9
45°	317.5
47.5°	271.6
50°	234.7
52.5°	203.8
55°	175.7
57.5°	153.5
60°	138.8
62.5°	124.1
65°	107.8
67.5°	94.5
70°	81.2
72.5°	68.0
75°	56.1
77.5°	44.3
80°	34.0
82.5°	23.6
85°	14.8
87.5°	5.9
90°	0.0



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— 0°-180°







(END OF REPORT)