

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: P580132

Luminaire Tested: **HC425D010-HM40525830-41NDH**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P580132  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-2)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/9/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC425D010-HM40525830-41NDH  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" NARROW DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

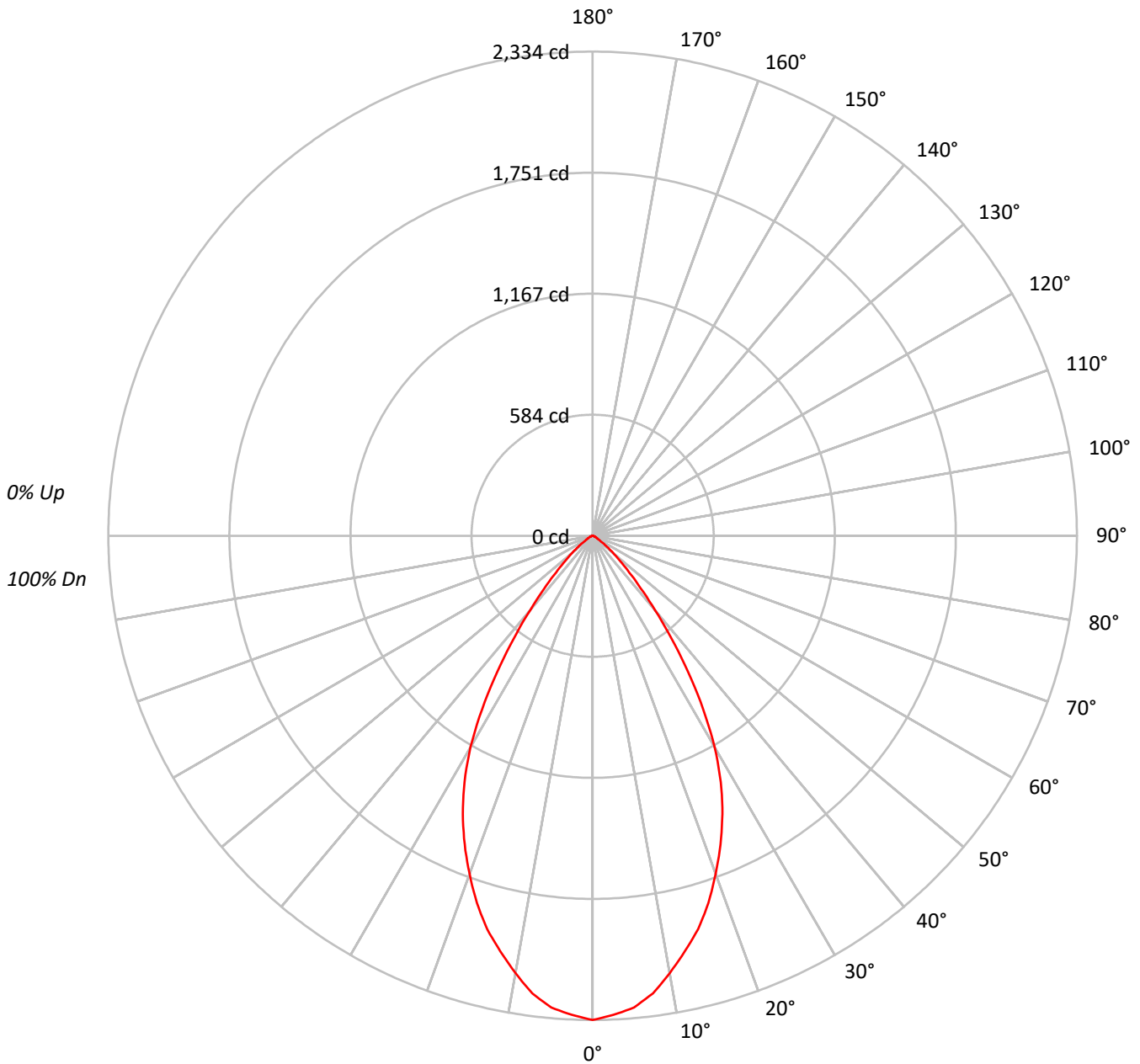
Lumens per Lamp: N/A  
Luminaire Lumens: 2219.4 lumens  
Efficiency: N/A  
Efficacy: 82.8 lumens/watt  
Spacing Criteria (0/90/45): 0.89 / 0.89 / 0.91  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 26.8  
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	113	110	108	105	111	108	106	104	104	102	100	100	99	97	97	96	95	93	93	93	93
2	107	102	98	94	105	100	96	93	97	94	91	94	91	89	91	89	87	86	86	86	86
3	101	95	89	85	99	93	88	84	91	86	83	88	85	82	86	83	81	79	79	79	79
4	96	88	82	78	94	87	81	77	85	80	76	82	79	75	81	77	74	73	73	73	73
5	91	82	76	71	89	81	75	71	79	74	70	77	73	70	76	72	69	67	67	67	67
6	86	76	70	66	84	76	70	65	74	69	65	73	68	64	71	67	64	63	63	63	63
7	81	72	65	61	80	71	65	61	70	64	60	68	64	60	67	63	60	58	58	58	58
8	77	67	61	57	76	67	61	56	65	60	56	64	59	56	63	59	56	54	54	54	54
9	73	63	57	53	72	63	57	53	62	56	52	61	56	52	60	55	52	51	51	51	51
10	70	59	53	49	69	59	53	49	58	53	49	57	52	49	57	52	49	48	48	48	48

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

	0°
0°	287876
5°	282637
10°	268082
15°	250669
20°	227660
25°	201451
30°	167566
35°	120838
40°	75404
45°	43505
50°	24543
55°	11677
60°	6710
65°	5137
70°	3462
75°	2240
80°	2273
85°	2264



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	213.4	9.6
10°-20°	547.6	24.7
20°-30°	673.5	30.3
30°-40°	500.2	22.5
40°-50°	203.4	9.2
50°-60°	56.3	2.5
60°-70°	17.6	0.8
70°-80°	5.9	0.3
80°-90°	1.7	0.1
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°	1434.5	64.6
0°-40°	1934.6	87.2
0°-60°	2194.3	98.9
0°-90°	2219.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2219.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2334	
5°	2283	213
15°	1963	548
25°	1480	673
35°	802	500
45°	249	203
55°	54	56
65°	18	18
75°	5	6
85°	2	2
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2333.9
2.5°	2311.4
5°	2282.7
7.5°	2225.1
10°	2140.4
12.5°	2052.5
15°	1963.0
17.5°	1855.9
20°	1734.4
22.5°	1611.3
25°	1480.2
27.5°	1338.0
30°	1176.5
32.5°	992.7
35°	802.5
37.5°	623.4
40°	468.3
42.5°	342.1
45°	249.4
47.5°	179.1
50°	127.9
52.5°	87.9
55°	54.3
57.5°	35.1
60°	27.2
62.5°	22.4
65°	17.6
67.5°	12.8
70°	9.6
72.5°	8.0
75°	4.7
77.5°	3.2
80°	3.2
82.5°	1.6
85°	1.6
87.5°	1.6
90°	0.0



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— 0°-180°







(END OF REPORT)