

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: P580384

Luminaire Tested: **HC430D010-HM43040940-41NDH**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P580384  
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: HC430D010-HM43040940-41NDH  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" NARROW DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2433.4 lumens  
Efficiency: N/A  
Efficacy: 86.9 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

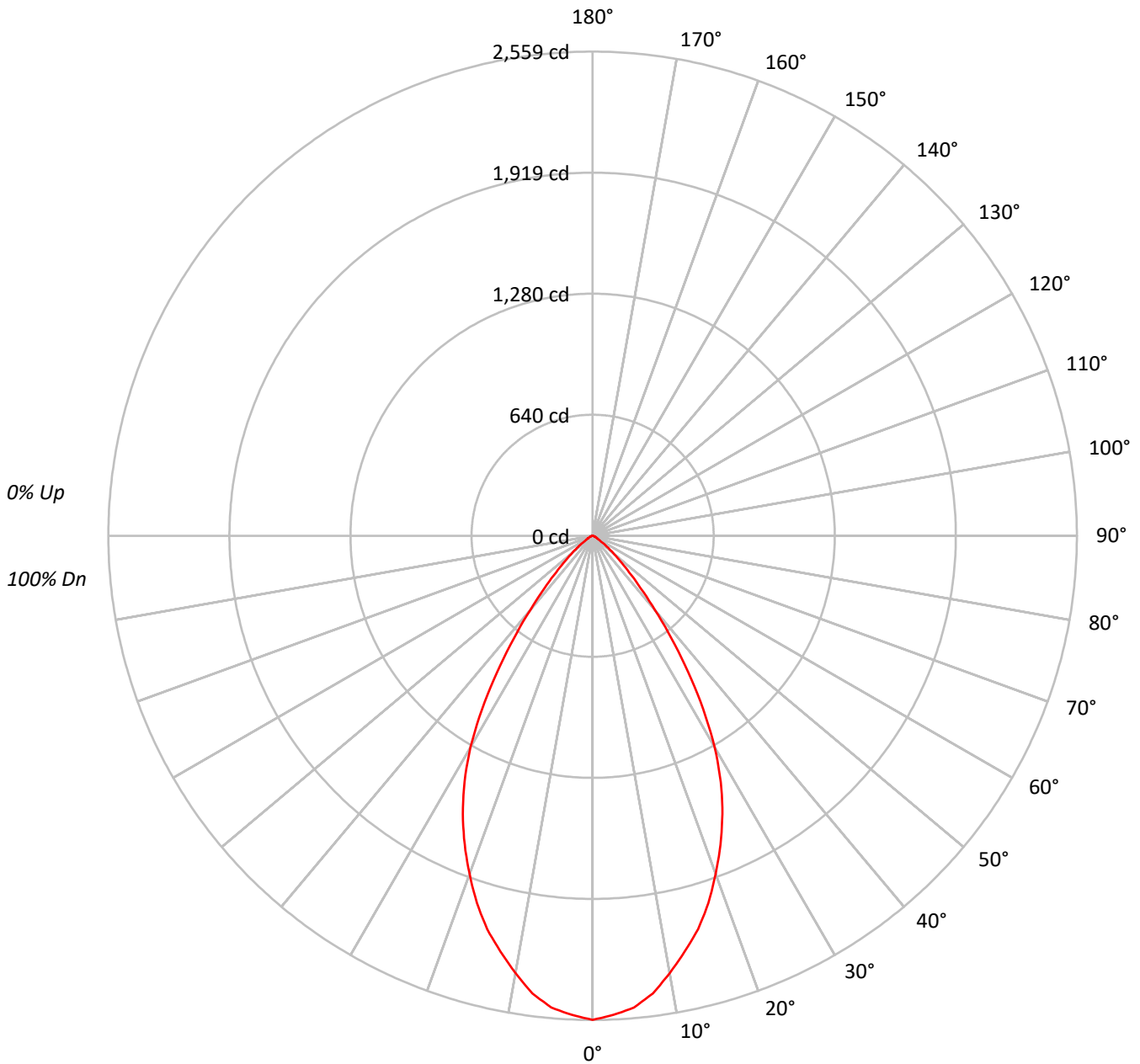
Input Watts (W): 28  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	315617
5°	309876
10°	293920
15°	274816
20°	249594
25°	220872
30°	183717
35°	132463
40°	82682
45°	47691
50°	26903
55°	12817
60°	7351
65°	5633
70°	3787
75°	2526
80°	2486
85°	2547



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	233.9	9.6
10°-20°	600.4	24.7
20°-30°	738.4	30.3
30°-40°	548.4	22.5
40°-50°	223.0	9.2
50°-60°	61.7	2.5
60°-70°	19.2	0.8
70°-80°	6.5	0.3
80°-90°	1.9	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°	1572.7	64.6
0°-40°	2121.0	87.2
0°-60°	2405.7	98.9
0°-90°	2433.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2433.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2559	
5°	2503	234
15°	2152	600
25°	1623	738
35°	880	548
45°	273	223
55°	60	62
65°	19	19
75°	5	6
85°	2	2
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2558.8
2.5°	2534.2
5°	2502.7
7.5°	2439.5
10°	2346.7
12.5°	2250.2
15°	2152.1
17.5°	2034.7
20°	1901.5
22.5°	1766.6
25°	1622.9
27.5°	1466.9
30°	1289.9
32.5°	1088.3
35°	879.7
37.5°	683.5
40°	513.5
42.5°	375.1
45°	273.4
47.5°	196.3
50°	140.2
52.5°	96.4
55°	59.6
57.5°	38.6
60°	29.8
62.5°	24.6
65°	19.3
67.5°	14.0
70°	10.5
72.5°	8.8
75°	5.3
77.5°	3.5
80°	3.5
82.5°	1.8
85°	1.8
87.5°	1.8
90°	0.0



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— 0°-180°







(END OF REPORT)