

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: P580349

Luminaire Tested: **HC430D010-HM43040930-41WDH**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P580349  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-8)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/9/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC430D010-HM43040930-41WDH  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2686.2 lumens  
Efficiency: N/A  
Efficacy: 95.9 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.11  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

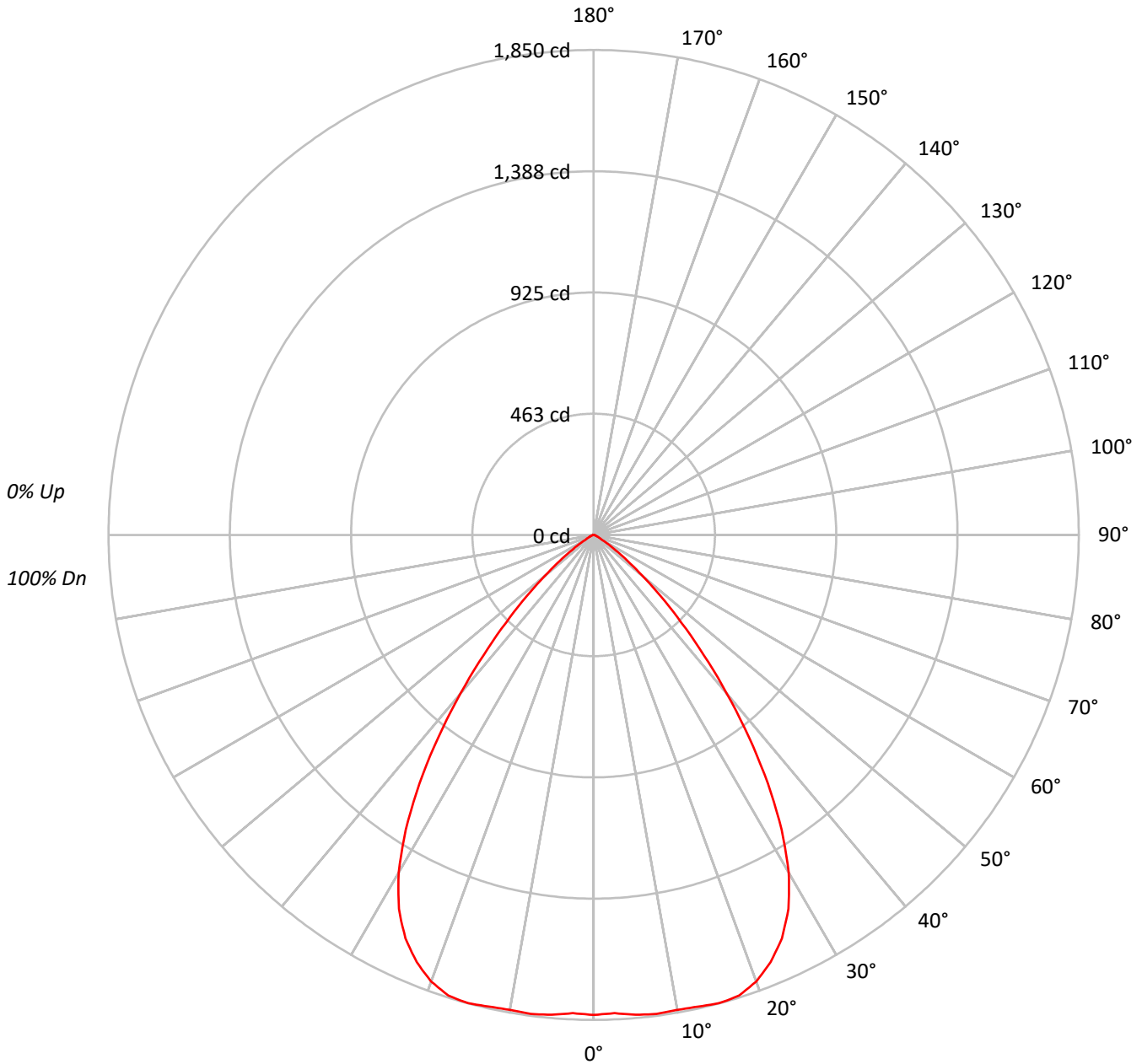
Input Watts (W): 28  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	107	104	110	108	105	103	103	101	100	100	98	97	96	95	94	92	92	92	92
2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	88	86	84	84	84	84
3	100	93	87	82	98	91	86	82	88	84	80	86	82	79	84	81	78	76	76	76	76
4	94	85	79	74	92	84	78	74	82	77	73	80	75	72	78	74	71	69	69	69	69
5	88	79	72	67	86	78	72	67	76	70	66	74	69	66	72	68	65	63	63	63	63
6	83	73	66	61	81	72	66	61	70	65	61	69	64	60	68	63	60	58	58	58	58
7	78	68	61	56	77	67	60	56	65	60	55	64	59	55	63	58	55	53	53	53	53
8	74	63	56	51	72	62	56	51	61	55	51	60	55	51	59	54	51	49	49	49	49
9	69	59	52	47	68	58	52	47	57	51	47	56	51	47	55	50	47	45	45	45	45
10	66	55	48	44	65	54	48	44	53	48	44	53	47	44	52	47	43	42	42	42	42

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

	0°
0°	225846
5°	227538
10°	230382
15°	236175
20°	237912
25°	231106
30°	211889
35°	174338
40°	127090
45°	82491
50°	46495
55°	22064
60°	8708
65°	5399
70°	3679
75°	2431
80°	1208
85°	2406



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	175.5	6.5
10°-20°	521.4	19.4
20°-30°	773.4	28.8
30°-40°	714.3	26.6
40°-50°	373.0	13.9
50°-60°	102.2	3.8
60°-70°	19.7	0.7
70°-80°	5.6	0.2
80°-90°	1.2	0.0
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°	1470.3	54.7
0°-40°	2184.6	81.3
0°-60°	2659.8	99.0
0°-90°	2686.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2686.2	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1831	
5°	1838	175
15°	1850	521
25°	1698	773
35°	1158	714
45°	473	373
55°	103	102
65°	18	20
75°	5	6
85°	2	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1831.0
2.5°	1825.9
5°	1837.7
7.5°	1842.8
10°	1839.4
12.5°	1842.8
15°	1849.5
17.5°	1842.8
20°	1812.5
22.5°	1763.6
25°	1698.1
27.5°	1608.9
30°	1487.7
32.5°	1334.5
35°	1157.8
37.5°	972.7
40°	789.3
42.5°	621.0
45°	472.9
47.5°	346.6
50°	242.3
52.5°	161.5
55°	102.6
57.5°	60.6
60°	35.3
62.5°	25.3
65°	18.5
67.5°	13.4
70°	10.2
72.5°	6.8
75°	5.1
77.5°	3.4
80°	1.7
82.5°	1.7
85°	1.7
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)