

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: P580391

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

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P580391  
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: HC430D010-HM43040940-41NDW  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" NARROW DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2412.3 lumens  
Efficiency: N/A  
Efficacy: 86.2 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

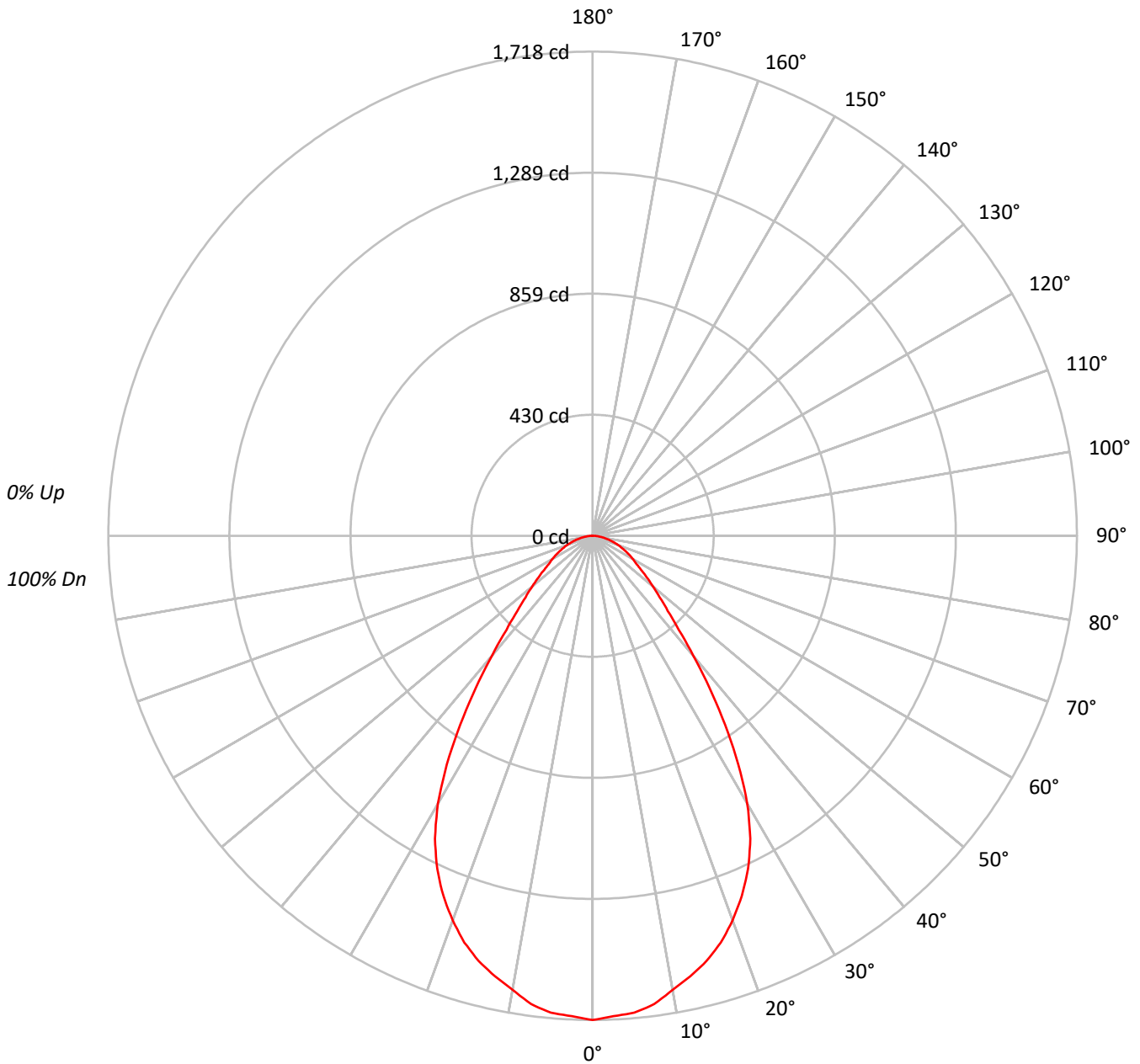
Input Watts (W): 28  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	211932
5°	210352
10°	204881
15°	199488
20°	190553
25°	177525
30°	156314
35°	123293
40°	89493
45°	65763
50°	53480
55°	44880
60°	40655
65°	37358
70°	34766
75°	31787
80°	28626
85°	24767



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	160.2	6.6
10°-20°	438.2	18.2
20°-30°	594.0	24.6
30°-40°	509.7	21.1
40°-50°	300.9	12.5
50°-60°	190.7	7.9
60°-70°	128.1	5.3
70°-80°	70.8	2.9
80°-90°	19.8	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°	1192.3	49.4
0°-40°	1702.0	70.6
0°-60°	2193.6	90.9
0°-90°	2412.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2412.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1718	
5°	1699	160
15°	1562	438
25°	1304	594
35°	819	510
45°	377	301
55°	209	191
65°	128	128
75°	67	71
85°	18	20
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1718.2
2.5°	1705.9
5°	1698.9
7.5°	1676.1
10°	1635.8
12.5°	1600.7
15°	1562.2
17.5°	1513.1
20°	1451.7
22.5°	1383.3
25°	1304.4
27.5°	1211.5
30°	1097.5
32.5°	962.5
35°	818.8
37.5°	680.3
40°	555.8
42.5°	452.3
45°	377.0
47.5°	322.6
50°	278.7
52.5°	242.0
55°	208.7
57.5°	182.3
60°	164.8
62.5°	147.3
65°	128.0
67.5°	112.2
70°	96.4
72.5°	80.7
75°	66.7
77.5°	52.6
80°	40.3
82.5°	28.1
85°	17.5
87.5°	7.0
90°	0.0



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— 0°-180°







(END OF REPORT)