

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: P580266

Luminaire Tested: **HC430D010-HM43040827-41PSMDW**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P580266  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-12)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/9/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC430D010-HM43040827-41PSMDW  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" PLASTIC TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2564.5 lumens  
Efficiency: N/A  
Efficacy: 91.6 lumens/watt  
Spacing Criteria (0/90/45): 1.03 / 1.03 / 0.99  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

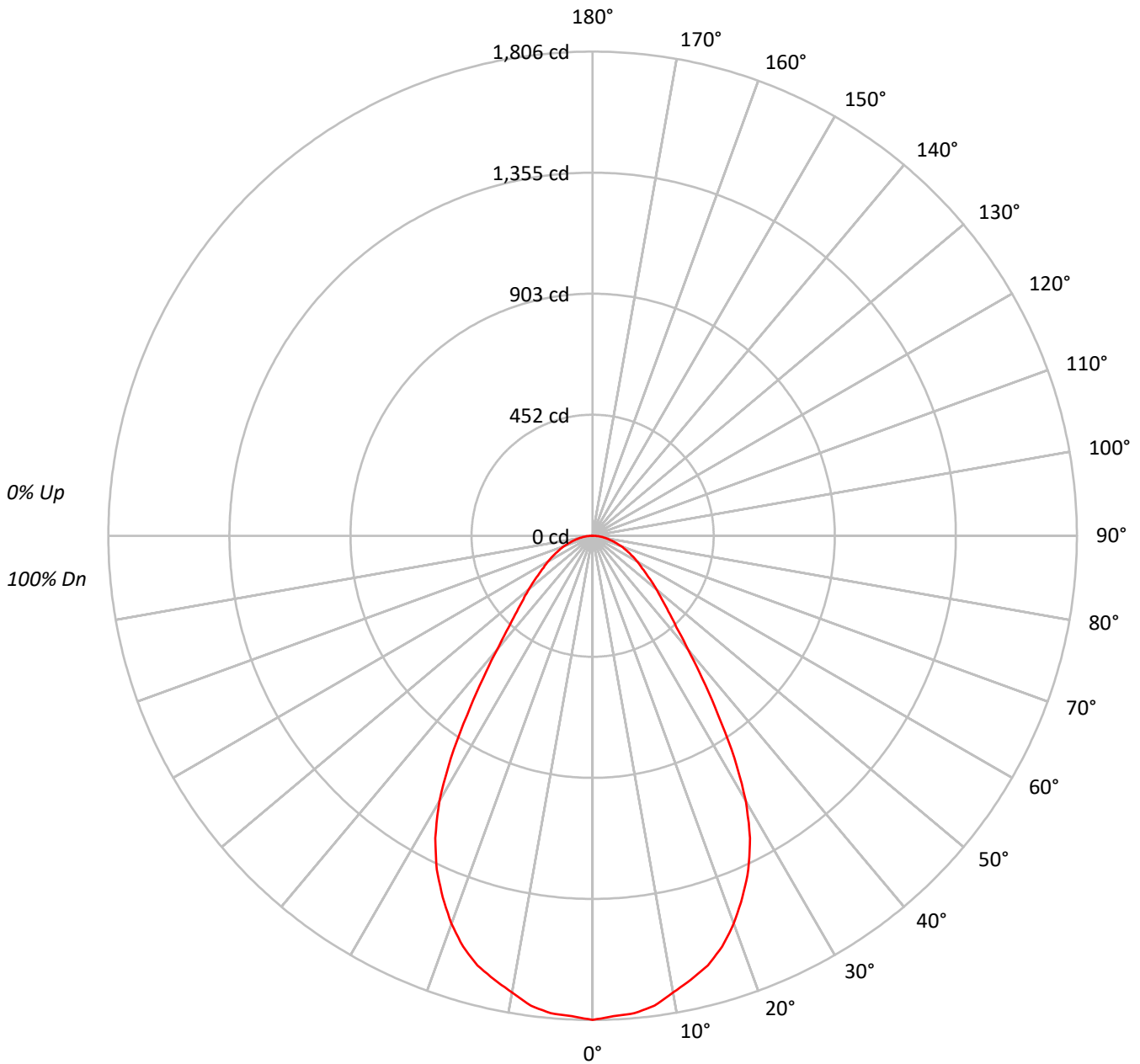
Input Watts (W): 28  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	111	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89		
2	103	97	91	87	101	95	90	86	92	88	84	89	85	82	86	83	80	78		
3	96	88	81	76	94	86	80	75	84	78	74	81	77	73	79	75	72	70		
4	90	80	73	68	88	79	72	67	77	71	66	74	69	65	72	68	65	63		
5	84	74	66	61	82	72	66	60	71	64	60	69	63	59	67	62	59	57		
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	53	52		
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47		
8	70	58	51	46	68	58	51	46	56	50	46	55	50	45	54	49	45	44		
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	40		
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	37		

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

	0°
0°	222750
5°	221360
10°	216655
15°	211862
20°	202064
25°	187051
30°	162695
35°	122856
40°	89058
45°	69583
50°	59506
55°	51482
60°	47414
65°	43400
70°	40572
75°	37125
80°	34806
85°	33399



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	168.8	6.6
10°-20°	464.7	18.1
20°-30°	624.9	24.4
30°-40°	513.8	20.0
40°-50°	315.6	12.3
50°-60°	218.4	8.5
60°-70°	148.9	5.8
70°-80°	83.0	3.2
80°-90°	26.4	1.0
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°	1258.5	49.1
0°-40°	1772.3	69.1
0°-60°	2306.3	89.9
0°-90°	2564.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2564.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1806	
5°	1788	169
15°	1659	465
25°	1374	625
35°	816	514
45°	399	316
55°	239	218
65°	149	149
75°	78	83
85°	24	26
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1805.9
2.5°	1793.2
5°	1787.8
7.5°	1767.8
10°	1729.8
12.5°	1695.3
15°	1659.1
17.5°	1606.5
20°	1539.4
22.5°	1459.6
25°	1374.4
27.5°	1271.0
30°	1142.3
32.5°	984.5
35°	815.9
37.5°	670.8
40°	553.1
42.5°	462.4
45°	398.9
47.5°	349.9
50°	310.1
52.5°	273.8
55°	239.4
57.5°	214.0
60°	192.2
62.5°	170.4
65°	148.7
67.5°	130.5
70°	112.5
72.5°	94.3
75°	77.9
77.5°	61.7
80°	49.0
82.5°	36.2
85°	23.6
87.5°	12.7
90°	0.0



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— 0°-180°







(END OF REPORT)