

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: P580374

Luminaire Tested: **HC430D010-HM43040935-41PSMDW**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P580374  
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-HM43040935-41PSMDW  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" PLASTIC TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2480.8 lumens  
Efficiency: N/A  
Efficacy: 88.6 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

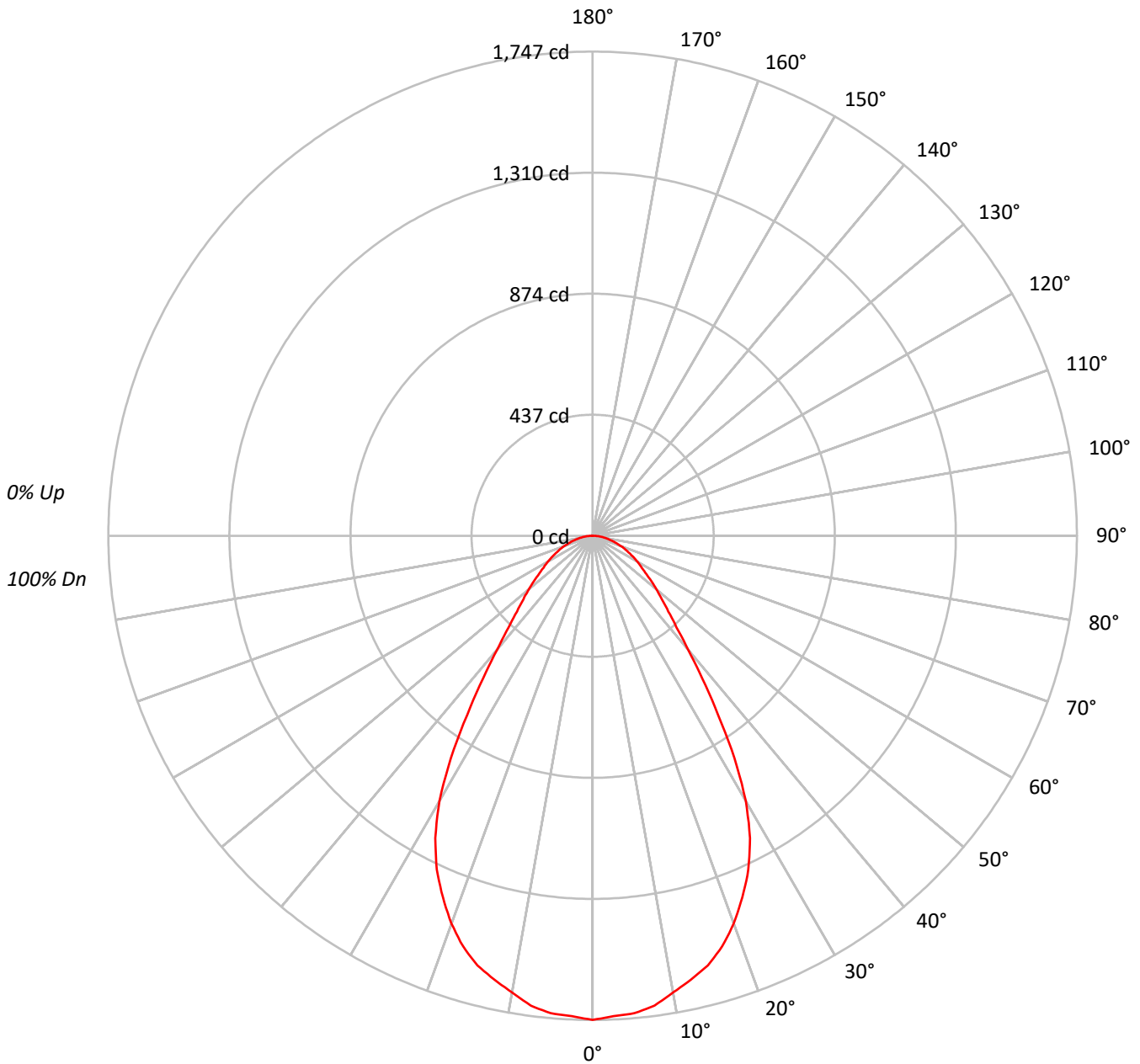
Input Watts (W): 28  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	0
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°	215472
5°	214116
10°	209578
15°	204928
20°	195462
25°	180941
30°	157382
35°	118851
40°	86128
45°	67315
50°	57548
55°	49783
60°	45860
65°	41970
70°	39201
75°	35981
80°	33669
85°	32267



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	163.3	6.6
10°-20°	449.5	18.1
20°-30°	604.5	24.4
30°-40°	497.1	20.0
40°-50°	305.3	12.3
50°-60°	211.3	8.5
60°-70°	144.0	5.8
70°-80°	80.3	3.2
80°-90°	25.6	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°	1217.4	49.1
0°-40°	1714.4	69.1
0°-60°	2230.9	89.9
0°-90°	2480.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2480.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1747	
5°	1729	163
15°	1605	450
25°	1330	604
35°	789	497
45°	386	305
55°	232	211
65°	144	144
75°	76	80
85°	23	26
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1746.9
2.5°	1734.6
5°	1729.3
7.5°	1710.0
10°	1673.3
12.5°	1639.9
15°	1604.8
17.5°	1553.9
20°	1489.1
22.5°	1411.9
25°	1329.5
27.5°	1229.5
30°	1105.0
32.5°	952.4
35°	789.3
37.5°	648.9
40°	534.9
42.5°	447.3
45°	385.9
47.5°	338.5
50°	299.9
52.5°	264.9
55°	231.5
57.5°	207.0
60°	185.9
62.5°	164.9
65°	143.8
67.5°	126.3
70°	108.7
72.5°	91.3
75°	75.5
77.5°	59.7
80°	47.4
82.5°	35.1
85°	22.8
87.5°	12.3
90°	0.0



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— 0°-180°







(END OF REPORT)