

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: P580302

Luminaire Tested: **HC430D010-HM43040835-41PSMDW**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P580302  
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-HM43040835-41PSMDW  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" PLASTIC TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2782.4 lumens  
Efficiency: N/A  
Efficacy: 99.4 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

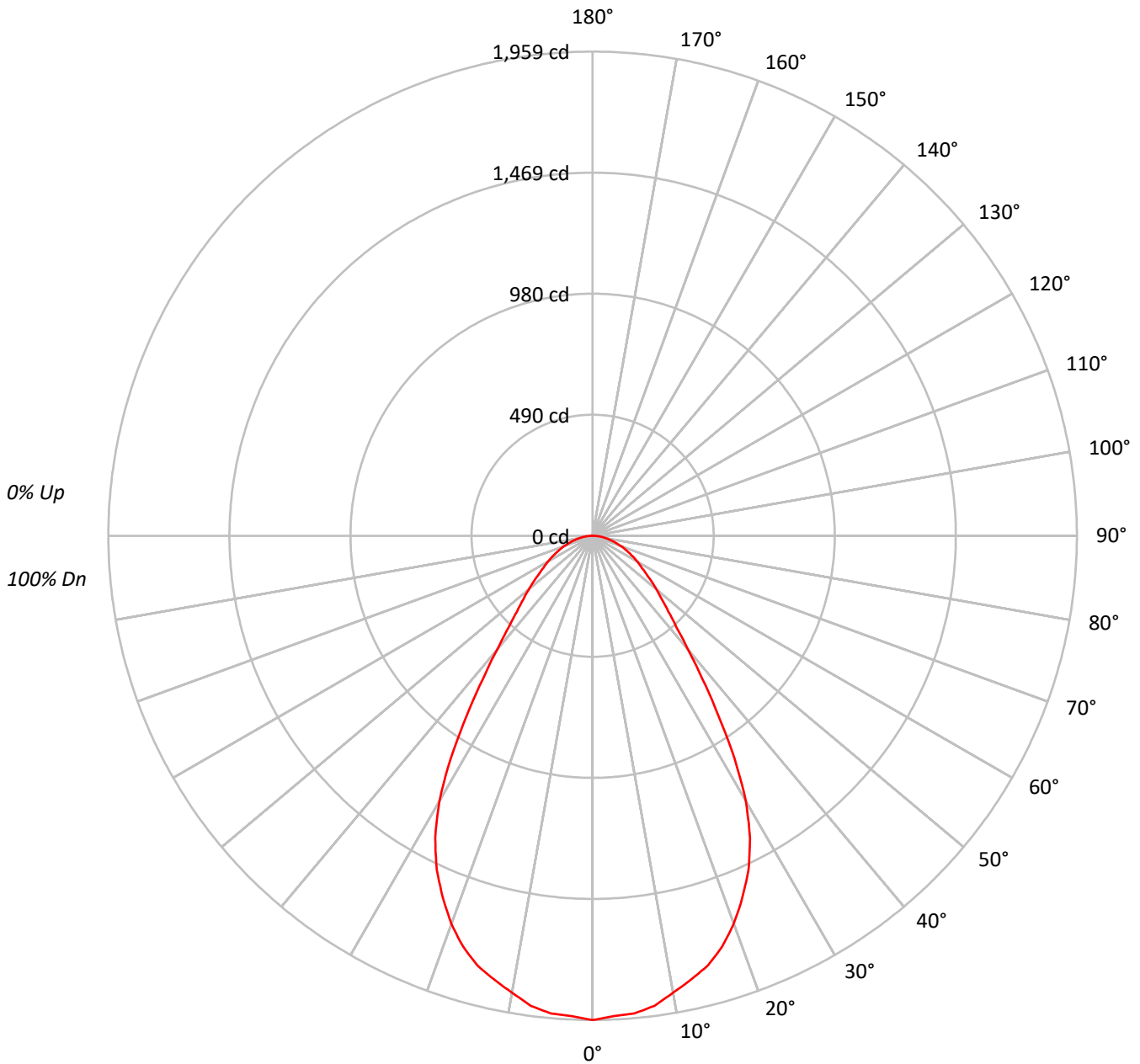
Input Watts (W): 28  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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

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

	0°
0°	241671
5°	240167
10°	235066
15°	229867
20°	219220
25°	202934
30°	176510
35°	133306
40°	96610
45°	75496
50°	64552
55°	55848
60°	51460
65°	47077
70°	43962
75°	40318
80°	37718
85°	36230



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	183.2	6.6
10°-20°	504.2	18.1
20°-30°	678.0	24.4
30°-40°	557.5	20.0
40°-50°	342.4	12.3
50°-60°	236.9	8.5
60°-70°	161.5	5.8
70°-80°	90.0	3.2
80°-90°	28.7	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°	1365.4	49.1
0°-40°	1922.9	69.1
0°-60°	2502.2	89.9
0°-90°	2782.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2782.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1959	
5°	1940	183
15°	1800	504
25°	1491	678
35°	885	558
45°	433	342
55°	260	237
65°	161	162
75°	85	90
85°	26	29
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1959.3
2.5°	1945.6
5°	1939.7
7.5°	1918.1
10°	1876.8
12.5°	1839.3
15°	1800.1
17.5°	1743.0
20°	1670.1
22.5°	1583.6
25°	1491.1
27.5°	1379.0
30°	1239.3
32.5°	1068.2
35°	885.3
37.5°	727.9
40°	600.0
42.5°	501.6
45°	432.8
47.5°	379.7
50°	336.4
52.5°	297.0
55°	259.7
57.5°	232.1
60°	208.6
62.5°	184.9
65°	161.3
67.5°	141.7
70°	121.9
72.5°	102.3
75°	84.6
77.5°	66.9
80°	53.1
82.5°	39.4
85°	25.6
87.5°	13.8
90°	0.0



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— 0°-180°







(END OF REPORT)