

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: P580176

Luminaire Tested: **HC425D010-HM40525840-41PSMDW**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P580176  
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: HC425D010-HM40525840-41PSMDW  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" PLASTIC TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2408.5 lumens  
Efficiency: N/A  
Efficacy: 89.9 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

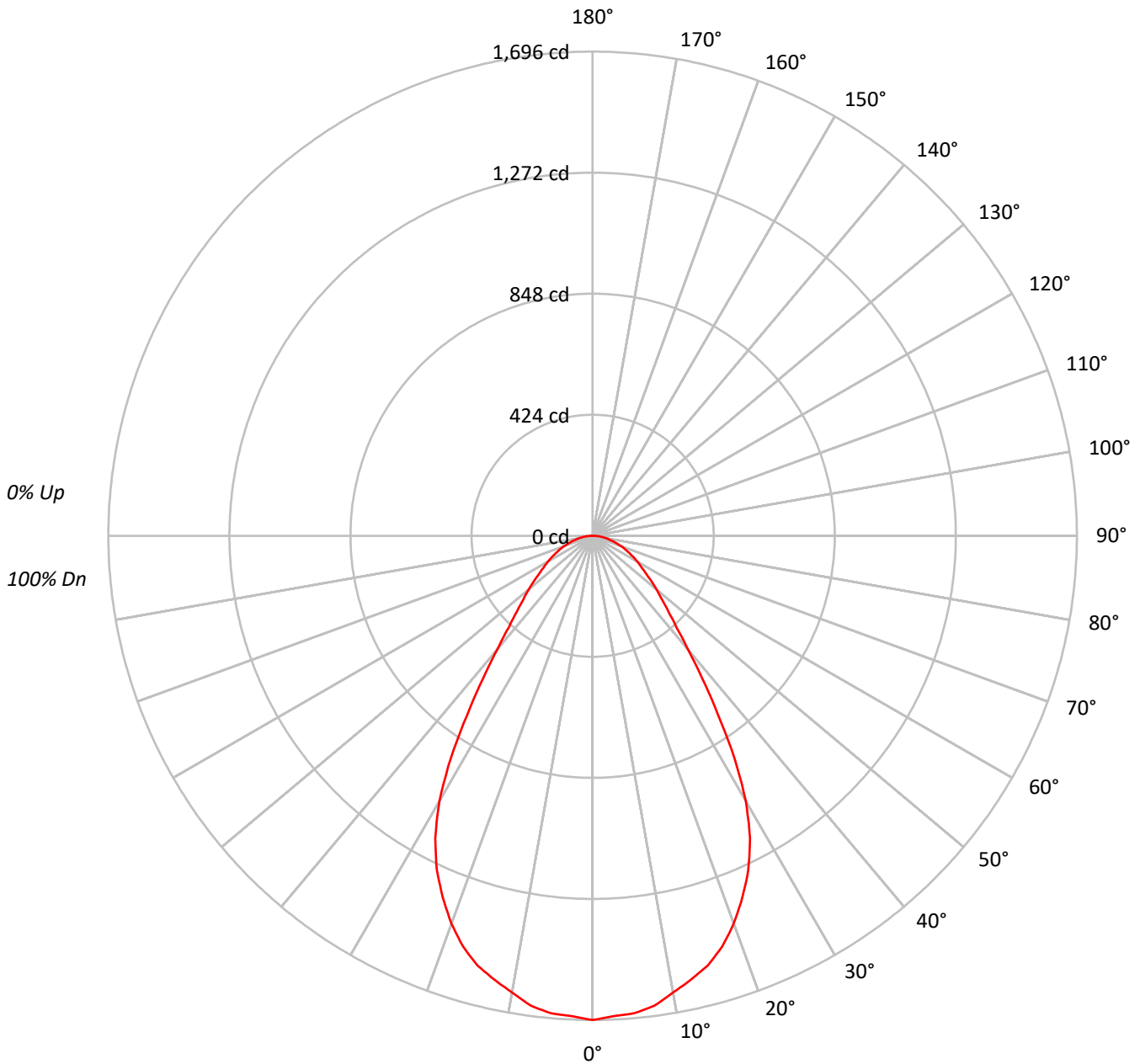
Input Watts (W): 26.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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			
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°	209194
5°	207876
10°	203454
15°	198952
20°	189765
25°	175660
30°	152796
35°	115387
40°	83616
45°	65344
50°	55879
55°	48342
60°	44528
65°	40773
70°	38083
75°	34933
80°	32675
85°	31277



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	158.6	6.6
10°-20°	436.4	18.1
20°-30°	586.9	24.4
30°-40°	482.6	20.0
40°-50°	296.4	12.3
50°-60°	205.1	8.5
60°-70°	139.8	5.8
70°-80°	77.9	3.2
80°-90°	24.8	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°	1181.9	49.1
0°-40°	1664.4	69.1
0°-60°	2165.9	89.9
0°-90°	2408.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2408.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1696	
5°	1679	159
15°	1558	436
25°	1291	587
35°	766	483
45°	375	296
55°	225	205
65°	140	140
75°	73	78
85°	22	25
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1696.0
2.5°	1684.0
5°	1678.9
7.5°	1660.2
10°	1624.4
12.5°	1592.1
15°	1558.0
17.5°	1508.7
20°	1445.7
22.5°	1370.7
25°	1290.7
27.5°	1193.7
30°	1072.8
32.5°	924.7
35°	766.3
37.5°	630.0
40°	519.3
42.5°	434.2
45°	374.6
47.5°	328.7
50°	291.2
52.5°	257.1
55°	224.8
57.5°	201.0
60°	180.5
62.5°	160.1
65°	139.7
67.5°	122.6
70°	105.6
72.5°	88.5
75°	73.3
77.5°	57.9
80°	46.0
82.5°	34.1
85°	22.1
87.5°	12.0
90°	0.0



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— 0°-180°







(END OF REPORT)