

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: P580230

Luminaire Tested: **HC425D010-HM40525935-41PSMDW**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P580230  
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-HM40525935-41PSMDW  
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: 2093.1 lumens  
Efficiency: N/A  
Efficacy: 78.1 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

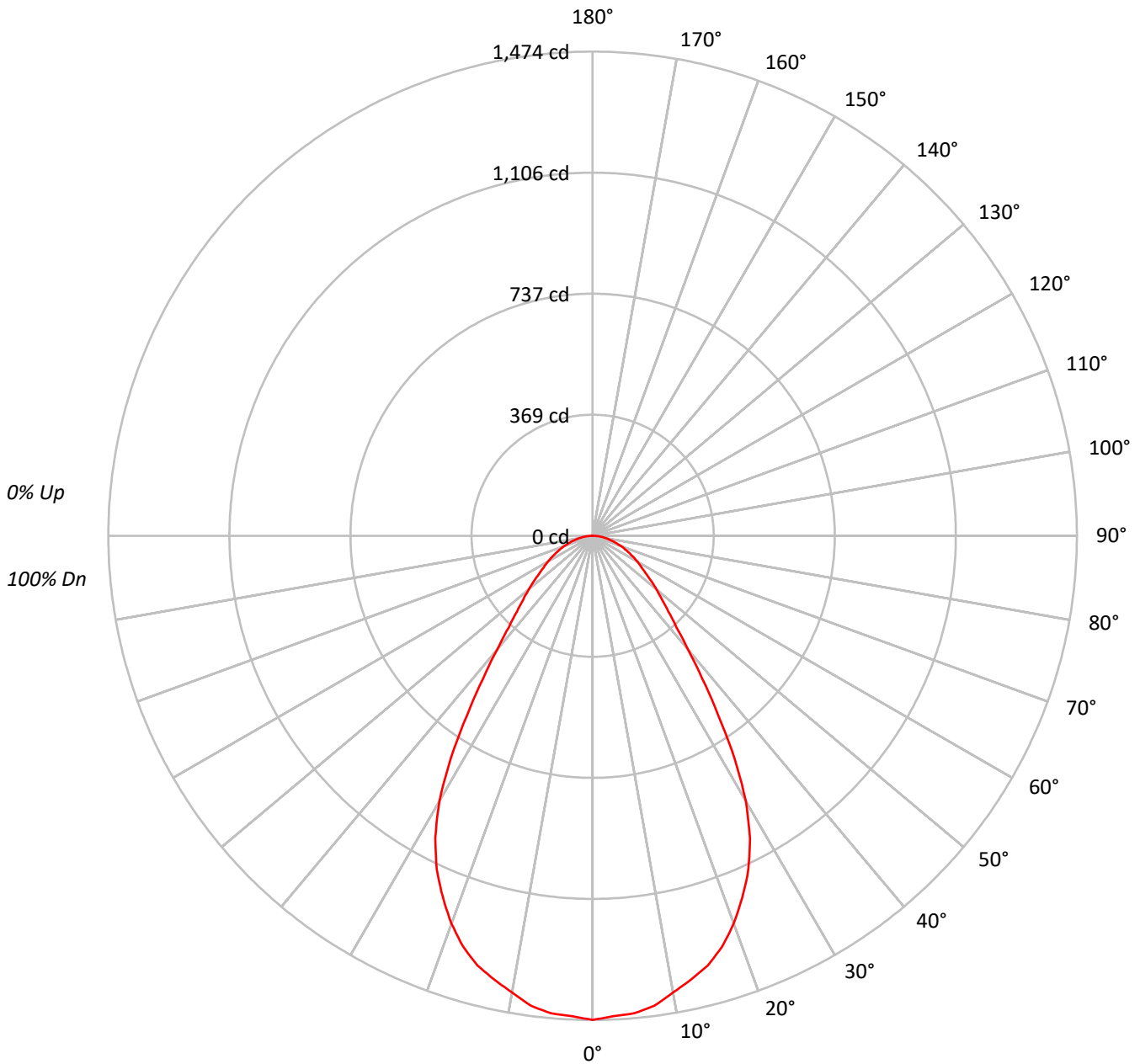
Input Watts (W): 26.8  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	181799
5°	180661
10°	176826
15°	172901
20°	164917
25°	152660
30°	132785
35°	100269
40°	72683
45°	56797
50°	48549
55°	41999
60°	38681
65°	35432
70°	33107
75°	30358
80°	28413
85°	27172



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	137.8	6.6
10°-20°	379.3	18.1
20°-30°	510.0	24.4
30°-40°	419.4	20.0
40°-50°	257.5	12.3
50°-60°	178.2	8.5
60°-70°	121.5	5.8
70°-80°	67.8	3.2
80°-90°	21.6	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°	1027.1	49.1
0°-40°	1446.5	69.1
0°-60°	1882.2	89.9
0°-90°	2093.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2093.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1474	
5°	1459	138
15°	1354	379
25°	1122	510
35°	666	419
45°	326	258
55°	195	178
65°	121	122
75°	64	68
85°	19	22
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1473.9
2.5°	1463.5
5°	1459.1
7.5°	1442.9
10°	1411.8
12.5°	1383.6
15°	1354.0
17.5°	1311.1
20°	1256.4
22.5°	1191.2
25°	1121.7
27.5°	1037.3
30°	932.3
32.5°	803.5
35°	665.9
37.5°	547.6
40°	451.4
42.5°	377.3
45°	325.6
47.5°	285.6
50°	253.0
52.5°	223.4
55°	195.3
57.5°	174.7
60°	156.8
62.5°	139.1
65°	121.4
67.5°	106.6
70°	91.8
72.5°	77.0
75°	63.7
77.5°	50.4
80°	40.0
82.5°	29.6
85°	19.2
87.5°	10.4
90°	0.0



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— 0°-180°







(END OF REPORT)