

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: P580120

Luminaire Tested: **HC425D010-HM40525827-41MDW**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P580120  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-6)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/9/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC425D010-HM40525827-41MDW  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" MEDIUM DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2131.9 lumens  
Efficiency: N/A  
Efficacy: 79.5 lumens/watt  
Spacing Criteria (0/90/45): 1.04 / 1.04 / 1.01  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

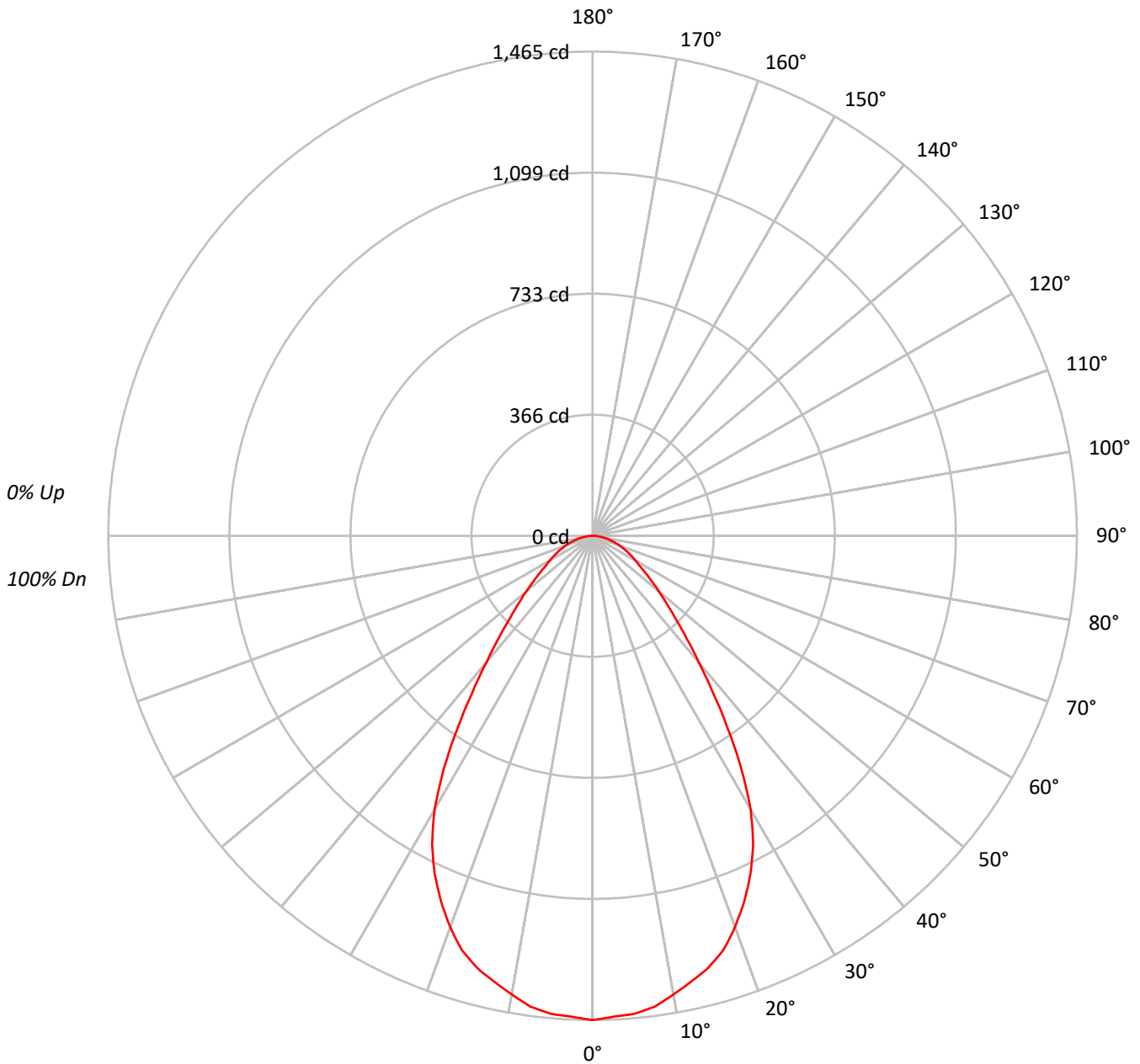
Input Watts (W): 26.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	100	100	100
1	111	108	104	101	109	105	102	100	101	99	97	97	95	94	94	92	91	89	89	89	89
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79	79	79	79
3	97	88	82	76	94	87	81	76	84	79	75	81	77	73	79	75	72	70	70	70	70
4	90	80	73	68	88	79	73	67	77	71	67	75	70	66	73	68	65	63	63	63	63
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	63	59	57	57	57	57
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	54	52	52	52	52
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47	47	47	47
8	70	58	51	46	68	58	51	46	56	50	46	55	50	45	54	49	45	44	44	44	44
9	66	54	47	42	65	54	47	42	53	46	42	52	46	42	51	46	42	40	40	40	40
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37	37	37	37

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

	0°
0°	180726
5°	179782
10°	176488
15°	172774
20°	165390
25°	153789
30°	136118
35°	107422
40°	80379
45°	61838
50°	50180
55°	41612
60°	36782
65°	34060
70°	31448
75°	28833
80°	26211
85°	20945



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	137.3	6.4
10°-20°	379.4	17.8
20°-30°	515.2	24.2
30°-40°	446.3	20.9
40°-50°	280.2	13.1
50°-60°	176.3	8.3
60°-70°	115.8	5.4
70°-80°	63.9	3.0
80°-90°	17.5	0.8
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°	1031.9	48.4
0°-40°	1478.2	69.3
0°-60°	1934.7	90.8
0°-90°	2131.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2131.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1465	
5°	1452	137
15°	1353	379
25°	1130	515
35°	713	446
45°	354	280
55°	194	176
65°	117	116
75°	60	64
85°	15	17
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1465.2
2.5°	1456.4
5°	1452.0
7.5°	1437.2
10°	1409.1
12.5°	1381.1
15°	1353.0
17.5°	1314.6
20°	1260.0
22.5°	1197.9
25°	1130.0
27.5°	1051.7
30°	955.7
32.5°	839.0
35°	713.4
37.5°	598.3
40°	499.2
42.5°	421.0
45°	354.5
47.5°	304.3
50°	261.5
52.5°	224.6
55°	193.5
57.5°	166.9
60°	149.1
62.5°	132.9
65°	116.7
67.5°	100.5
70°	87.2
72.5°	72.4
75°	60.5
77.5°	47.3
80°	36.9
82.5°	25.1
85°	14.8
87.5°	5.9
90°	0.0



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— 0°-180°







(END OF REPORT)