

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: P580166

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

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P580166  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-10)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/9/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC425D010-HM40525840-41WDWB  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, WHITE BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2748.9 lumens  
Efficiency: N/A  
Efficacy: 102.6 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.14 / 1.07  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

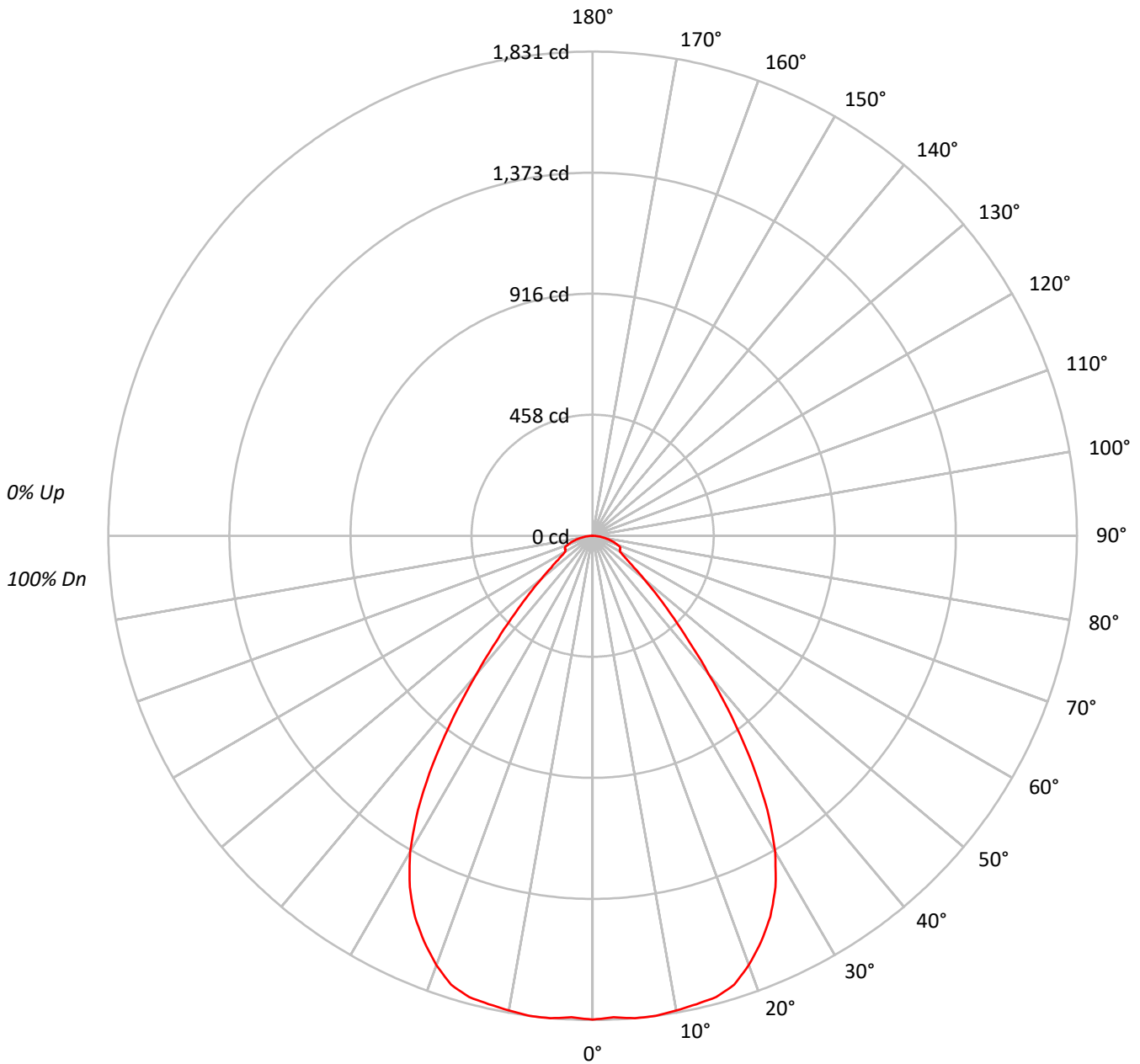
Input Watts (W): 26.8  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	100	100	100
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90	90	90	90
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	80	80	80	80
3	98	89	83	78	95	88	82	78	85	80	76	83	78	75	80	77	74	72	72	72	72
4	91	82	75	70	89	81	74	69	78	73	69	76	72	68	74	70	67	65	65	65	65
5	86	75	68	63	84	74	68	63	72	67	62	71	65	61	69	64	61	59	59	59	59
6	80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	59	56	54	54	54	54
7	76	64	57	52	74	64	57	52	62	56	52	61	56	51	60	55	51	49	49	49	49
8	71	60	53	48	70	59	53	48	58	52	48	57	51	47	56	51	47	46	46	46	46
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42	42	42	42
10	64	52	46	41	62	52	45	41	51	45	41	50	45	41	49	44	41	39	39	39	39

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

	0°
0°	225685
5°	226758
10°	228315
15°	230595
20°	226755
25°	216312
30°	196535
35°	158528
40°	110006
45°	72217
50°	48376
55°	34429
60°	29406
65°	33797
70°	36244
75°	34933
80°	31467
85°	28871



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	174.5	6.3
10°-20°	507.3	18.5
20°-30°	724.8	26.4
30°-40°	647.5	23.6
40°-50°	332.1	12.1
50°-60°	150.9	5.5
60°-70°	112.5	4.1
70°-80°	76.6	2.8
80°-90°	22.7	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°	1406.6	51.2
0°-40°	2054.1	74.7
0°-60°	2537.1	92.3
0°-90°	2748.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2748.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1830	
5°	1831	175
15°	1806	507
25°	1589	725
35°	1053	647
45°	414	332
55°	160	151
65°	116	113
75°	73	77
85°	20	23
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1829.7
2.5°	1822.9
5°	1831.4
7.5°	1831.4
10°	1822.9
12.5°	1814.3
15°	1805.8
17.5°	1780.2
20°	1727.5
22.5°	1662.7
25°	1589.4
27.5°	1497.5
30°	1379.9
32.5°	1230.0
35°	1052.8
37.5°	863.7
40°	683.2
42.5°	533.2
45°	414.0
47.5°	323.7
50°	252.1
52.5°	197.6
55°	160.1
57.5°	134.6
60°	119.2
62.5°	115.8
65°	115.8
67.5°	112.4
70°	100.5
72.5°	86.9
75°	73.3
77.5°	57.9
80°	44.3
82.5°	32.4
85°	20.4
87.5°	8.5
90°	0.0



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— 0°-180°







(END OF REPORT)