

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: P580112

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

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P580112  
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-HM40525827-41WDWB  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, WHITE BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2382.7 lumens  
Efficiency: N/A  
Efficacy: 88.9 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

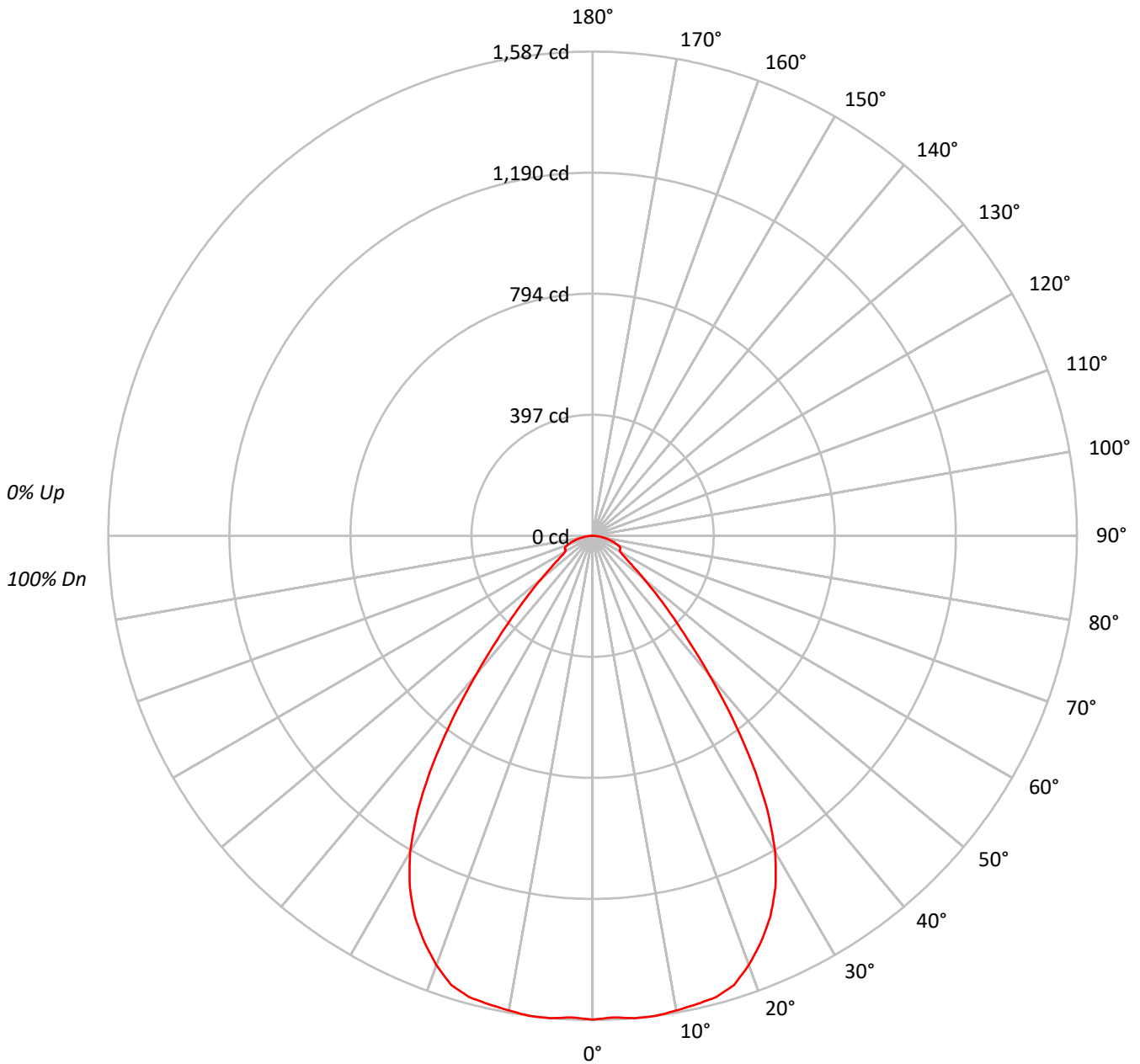
Input Watts (W): 26.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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

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

	0°
0°	195614
5°	196547
10°	197893
15°	199871
20°	196538
25°	187501
30°	170357
35°	137417
40°	95354
45°	62588
50°	41948
55°	29848
60°	25508
65°	29303
70°	31448
75°	30215
80°	27276
85°	25050



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	151.3	6.3
10°-20°	439.7	18.5
20°-30°	628.2	26.4
30°-40°	561.2	23.6
40°-50°	287.9	12.1
50°-60°	130.8	5.5
60°-70°	97.6	4.1
70°-80°	66.4	2.8
80°-90°	19.7	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°	1219.2	51.2
0°-40°	1780.4	74.7
0°-60°	2199.1	92.3
0°-90°	2382.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2382.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1586	
5°	1587	151
15°	1565	440
25°	1378	628
35°	913	561
45°	359	288
55°	139	131
65°	100	98
75°	63	66
85°	18	20
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1585.9
2.5°	1580.0
5°	1587.4
7.5°	1587.4
10°	1580.0
12.5°	1572.6
15°	1565.2
17.5°	1543.1
20°	1497.3
22.5°	1441.2
25°	1377.7
27.5°	1298.0
30°	1196.1
32.5°	1066.1
35°	912.6
37.5°	748.6
40°	592.2
42.5°	462.2
45°	358.8
47.5°	280.6
50°	218.6
52.5°	171.3
55°	138.8
57.5°	116.6
60°	103.4
62.5°	100.4
65°	100.4
67.5°	97.4
70°	87.2
72.5°	75.3
75°	63.4
77.5°	50.2
80°	38.4
82.5°	28.1
85°	17.7
87.5°	7.3
90°	0.0



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— 0°-180°







(END OF REPORT)