

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: P580474

Luminaire Tested: **HC435D010-HM43040927-41NDH**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P580474  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-2)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/9/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC435D010-HM43040927-41NDH  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" NARROW DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2605.4 lumens  
Efficiency: N/A  
Efficacy: 77.3 lumens/watt  
Spacing Criteria (0/90/45): 0.89 / 0.89 / 0.91  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

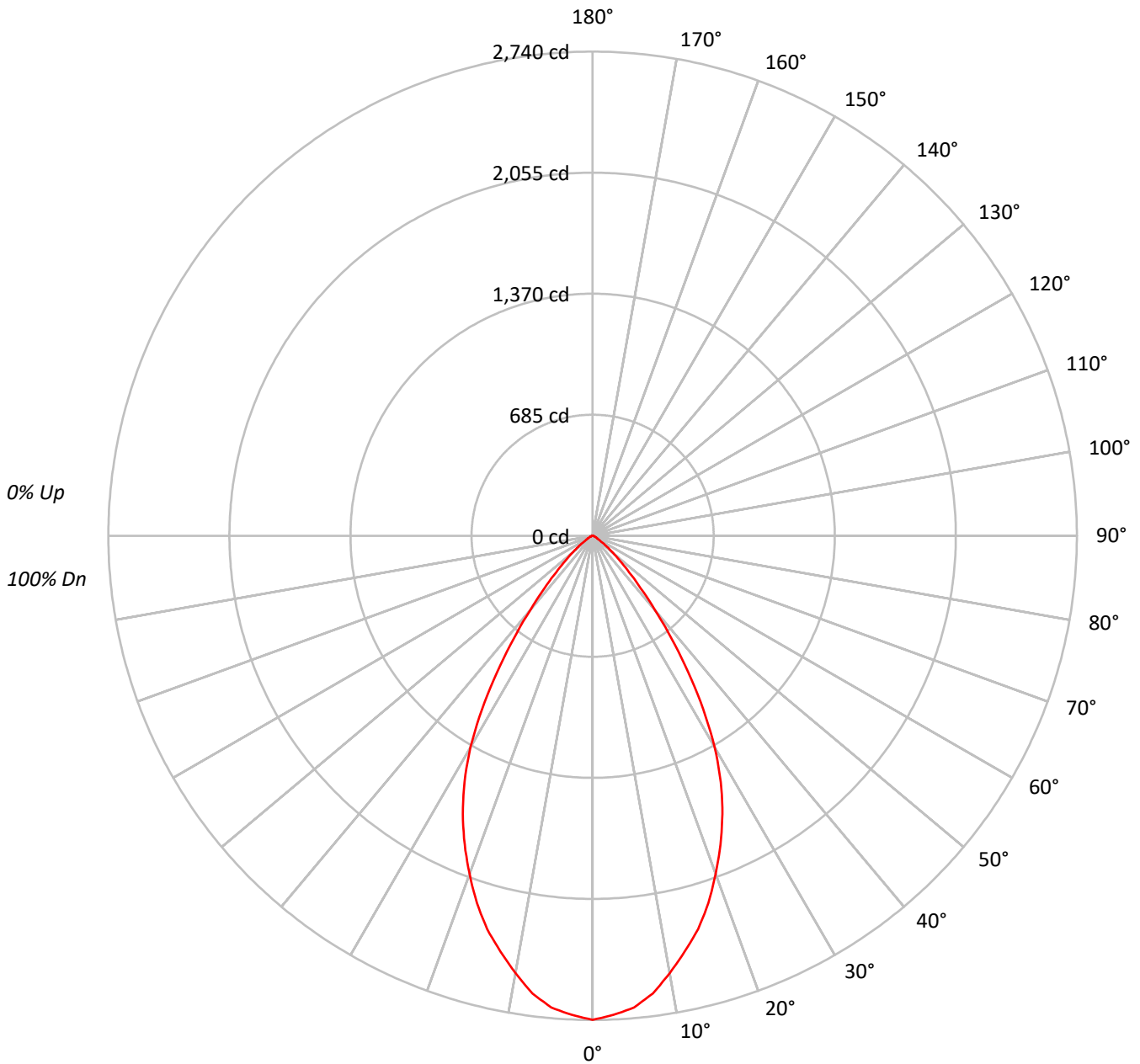
Input Watts (W): 33.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	113	110	108	105	111	108	106	104	104	102	100	100	99	97	97	96	95	93	93	93	93
2	107	102	98	94	105	100	96	93	97	94	91	94	91	89	91	89	87	86	86	86	86
3	101	95	89	85	99	93	88	84	91	86	83	88	85	82	86	83	81	79	79	79	79
4	96	88	82	78	94	87	81	77	85	80	76	82	79	75	81	77	74	73	73	73	73
5	91	82	76	71	89	81	75	71	79	74	70	77	73	70	76	72	69	67	67	67	67
6	86	76	70	66	84	76	70	65	74	69	65	73	68	64	71	67	64	63	63	63	63
7	81	72	65	61	80	71	65	61	70	64	60	68	64	60	67	63	60	58	58	58	58
8	77	67	61	57	76	67	61	56	65	60	56	64	59	56	63	59	56	54	54	54	54
9	73	63	57	53	72	63	57	53	62	56	52	61	56	52	60	55	52	51	51	51	51
10	70	59	53	49	69	59	53	49	58	53	49	57	52	49	57	52	49	48	48	48	48

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

	0°
0°	337918
5°	331779
10°	314699
15°	294252
20°	267249
25°	236482
30°	196706
35°	141844
40°	88543
45°	51058
50°	28822
55°	13720
60°	7869
65°	6042
70°	4039
75°	2669
80°	2628
85°	2689



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	250.5	9.6
10°-20°	642.8	24.7
20°-30°	790.6	30.3
30°-40°	587.2	22.5
40°-50°	238.7	9.2
50°-60°	66.1	2.5
60°-70°	20.6	0.8
70°-80°	6.9	0.3
80°-90°	2.1	0.1
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°	1683.9	64.6
0°-40°	2271.1	87.2
0°-60°	2575.9	98.9
0°-90°	2605.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2605.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2740	
5°	2680	250
15°	2304	643
25°	1738	791
35°	942	587
45°	293	239
55°	64	66
65°	21	21
75°	6	7
85°	2	2
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2739.6
2.5°	2713.4
5°	2679.6
7.5°	2612.1
10°	2512.6
12.5°	2409.4
15°	2304.3
17.5°	2178.6
20°	2036.0
22.5°	1891.5
25°	1737.6
27.5°	1570.7
30°	1381.1
32.5°	1165.3
35°	942.0
37.5°	731.8
40°	549.9
42.5°	401.6
45°	292.7
47.5°	210.2
50°	150.2
52.5°	103.2
55°	63.8
57.5°	41.3
60°	31.9
62.5°	26.3
65°	20.7
67.5°	15.1
70°	11.2
72.5°	9.3
75°	5.6
77.5°	3.7
80°	3.7
82.5°	1.9
85°	1.9
87.5°	1.9
90°	0.0



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— 0°-180°







(END OF REPORT)