

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: P580497

Luminaire Tested: **HC435D010-HM43040930-41WDC**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P580497  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-7)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/9/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC435D010-HM43040930-41WDC  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, SPECULAR TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3418.8 lumens  
Efficiency: N/A  
Efficacy: 101.4 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.11  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

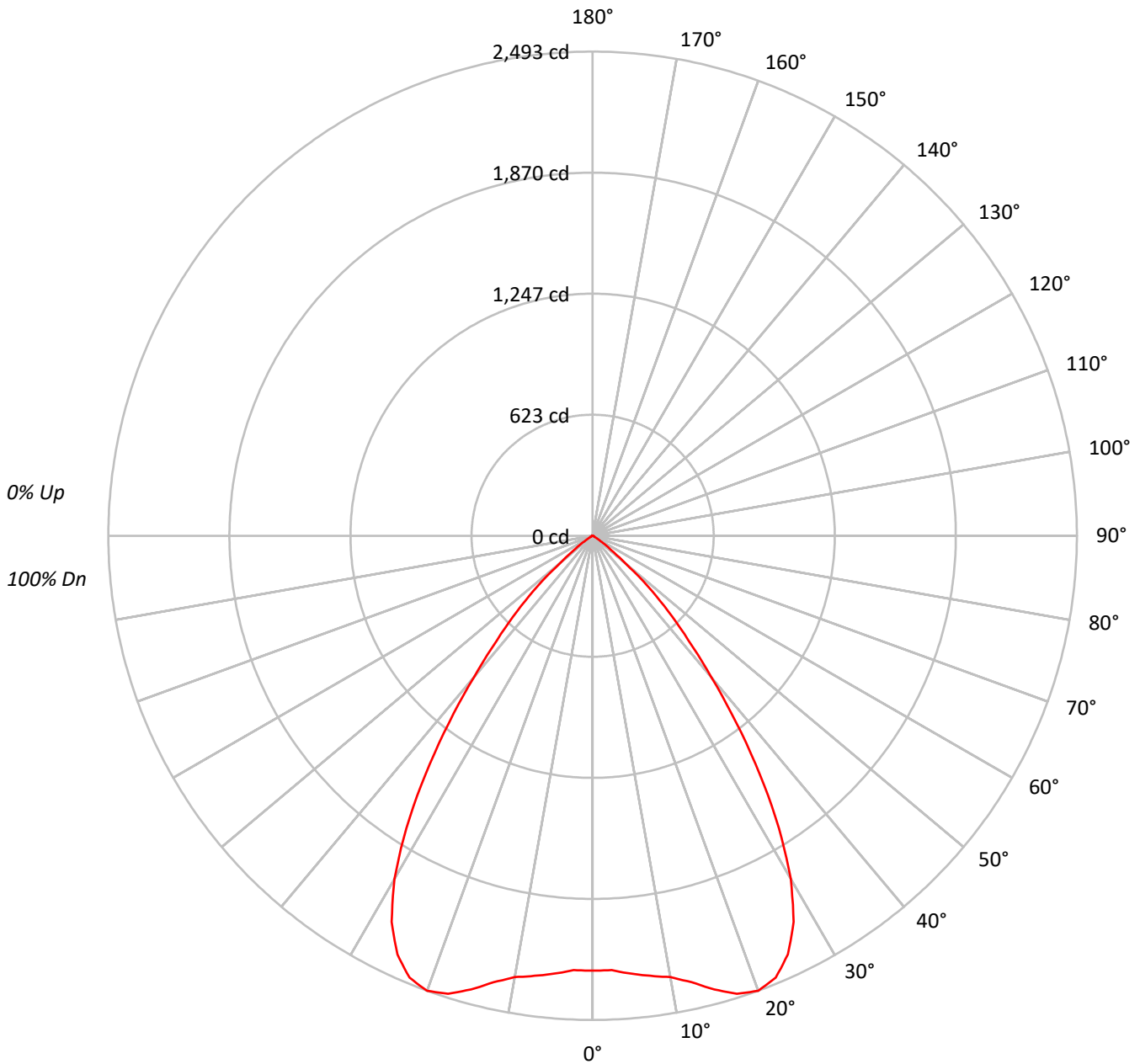
Input Watts (W): 33.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20									20									20									20									
RC	80									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	113	110	107	105	110	108	105	103	104	102	100	100	98	97	97	95	94	92			92																
2	107	101	97	93	104	100	96	92	96	93	90	93	91	88	91	88	86	85			85																
3	101	93	88	84	98	92	87	83	89	85	82	87	83	80	85	82	79	77			77																
4	95	86	80	76	93	85	79	75	83	78	74	81	77	73	79	75	72	71			71																
5	89	80	73	69	87	79	73	68	77	72	68	75	71	67	74	70	66	65			65																
6	84	74	67	63	82	73	67	62	72	66	62	70	65	62	69	65	61	60			60																
7	79	69	62	57	78	68	62	57	67	61	57	65	60	57	64	60	56	55			55																
8	75	64	57	53	73	63	57	53	62	57	53	61	56	52	60	56	52	51			51																
9	70	60	53	49	69	59	53	49	58	53	49	57	52	48	56	52	48	47			47																
10	67	56	50	45	66	55	49	45	55	49	45	54	49	45	53	48	45	43			43																

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

	0°
0°	276171
5°	280235
10°	289023
15°	308822
20°	327235
25°	323666
30°	290480
35°	226077
40°	153159
45°	95626
50°	41391
55°	13871
60°	3503
65°	2364
70°	1443
75°	953
80°	1421
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	217.4	6.4
10°-20°	686.5	20.1
20°-30°	1075.7	31.5
30°-40°	928.4	27.2
40°-50°	426.9	12.5
50°-60°	72.5	2.1
60°-70°	8.2	0.2
70°-80°	2.9	0.1
80°-90°	0.3	0.0
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°	1979.6	57.9
0°-40°	2907.9	85.1
0°-60°	3407.4	99.7
0°-90°	3418.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3418.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2239	
5°	2263	217
15°	2418	687
25°	2378	1076
35°	1501	928
45°	548	427
55°	64	73
65°	8	8
75°	2	3
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2239.0
2.5°	2239.0
5°	2263.3
7.5°	2285.4
10°	2307.6
12.5°	2354.0
15°	2418.4
17.5°	2472.8
20°	2493.0
22.5°	2462.8
25°	2378.2
27.5°	2241.0
30°	2039.5
32.5°	1785.6
35°	1501.4
37.5°	1215.3
40°	951.2
42.5°	727.6
45°	548.2
47.5°	385.0
50°	215.7
52.5°	118.9
55°	64.5
57.5°	32.3
60°	14.2
62.5°	10.1
65°	8.1
67.5°	6.1
70°	4.0
72.5°	4.0
75°	2.0
77.5°	2.0
80°	2.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)