

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: P580528

Luminaire Tested: **HC435D010-HM43040940-41NDH**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P580528  
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-HM43040940-41NDH  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" NARROW DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2914.4 lumens  
Efficiency: N/A  
Efficacy: 86.5 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

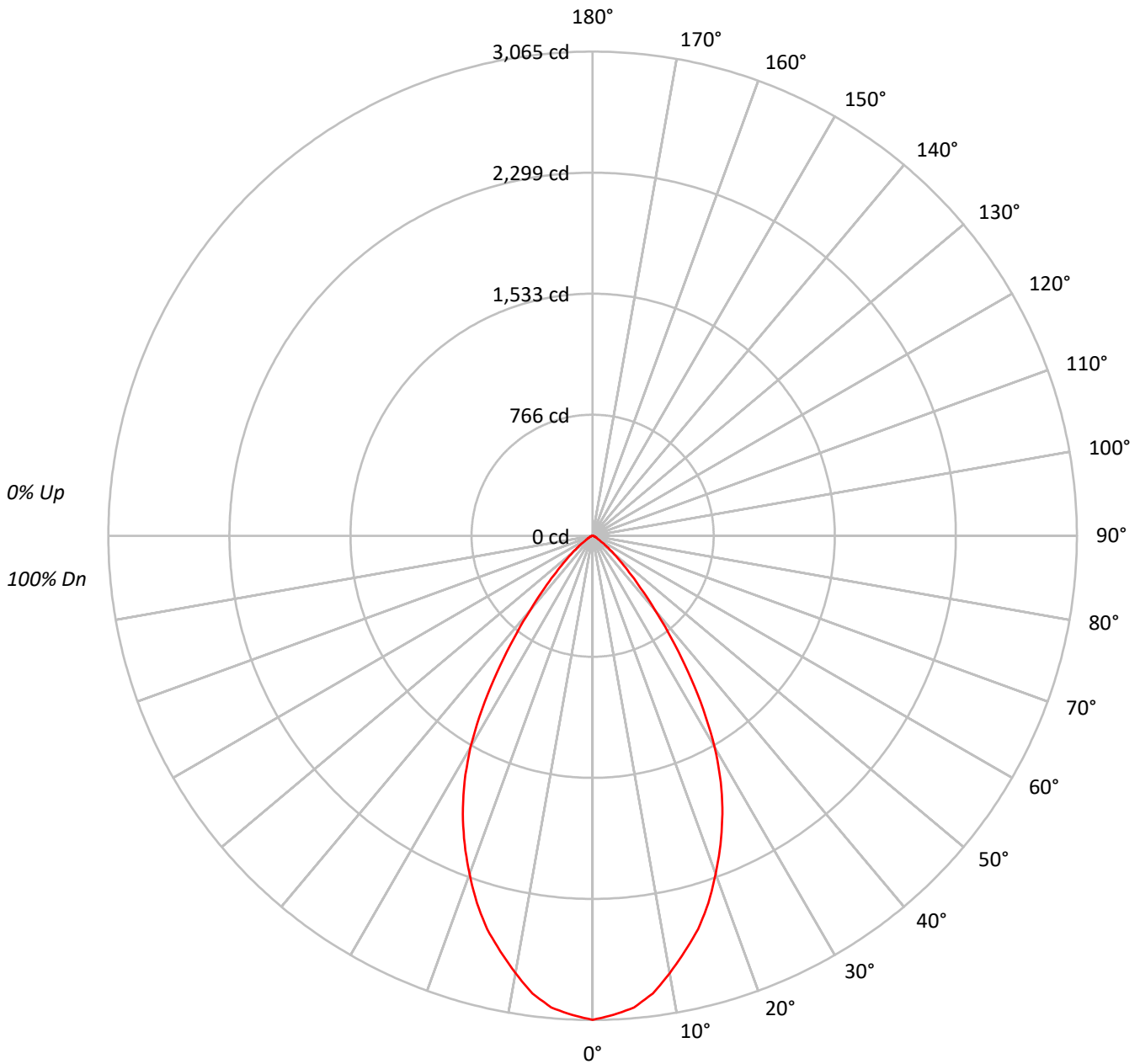
Input Watts (W): 33.7  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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	83	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°	378017
5°	371141
10°	352036
15°	329164
20°	298962
25°	264531
30°	220036
35°	158678
40°	99041
45°	57111
50°	32219
55°	15354
60°	8782
65°	6713
70°	4544
75°	3002
80°	2983
85°	2972



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	280.2	9.6
10°-20°	719.1	24.7
20°-30°	884.4	30.3
30°-40°	656.8	22.5
40°-50°	267.0	9.2
50°-60°	73.9	2.5
60°-70°	23.0	0.8
70°-80°	7.7	0.3
80°-90°	2.3	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°	1883.7	64.6
0°-40°	2540.5	87.2
0°-60°	2881.4	98.9
0°-90°	2914.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2914.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3065	
5°	2998	280
15°	2578	719
25°	1944	884
35°	1054	657
45°	327	267
55°	71	74
65°	23	23
75°	6	8
85°	2	2
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3064.7
2.5°	3035.2
5°	2997.5
7.5°	2922.0
10°	2810.7
12.5°	2695.2
15°	2577.7
17.5°	2437.1
20°	2277.6
22.5°	2115.9
25°	1943.7
27.5°	1756.9
30°	1544.9
32.5°	1303.5
35°	1053.8
37.5°	818.6
40°	615.1
42.5°	449.3
45°	327.4
47.5°	235.1
50°	167.9
52.5°	115.4
55°	71.4
57.5°	46.2
60°	35.6
62.5°	29.3
65°	23.0
67.5°	16.7
70°	12.6
72.5°	10.5
75°	6.3
77.5°	4.2
80°	4.2
82.5°	2.1
85°	2.1
87.5°	2.1
90°	0.0



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— 0°-180°







(END OF REPORT)