

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: P580498

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

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P580498  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-6)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/9/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC435D010-HM43040930-41MDW  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" MEDIUM DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

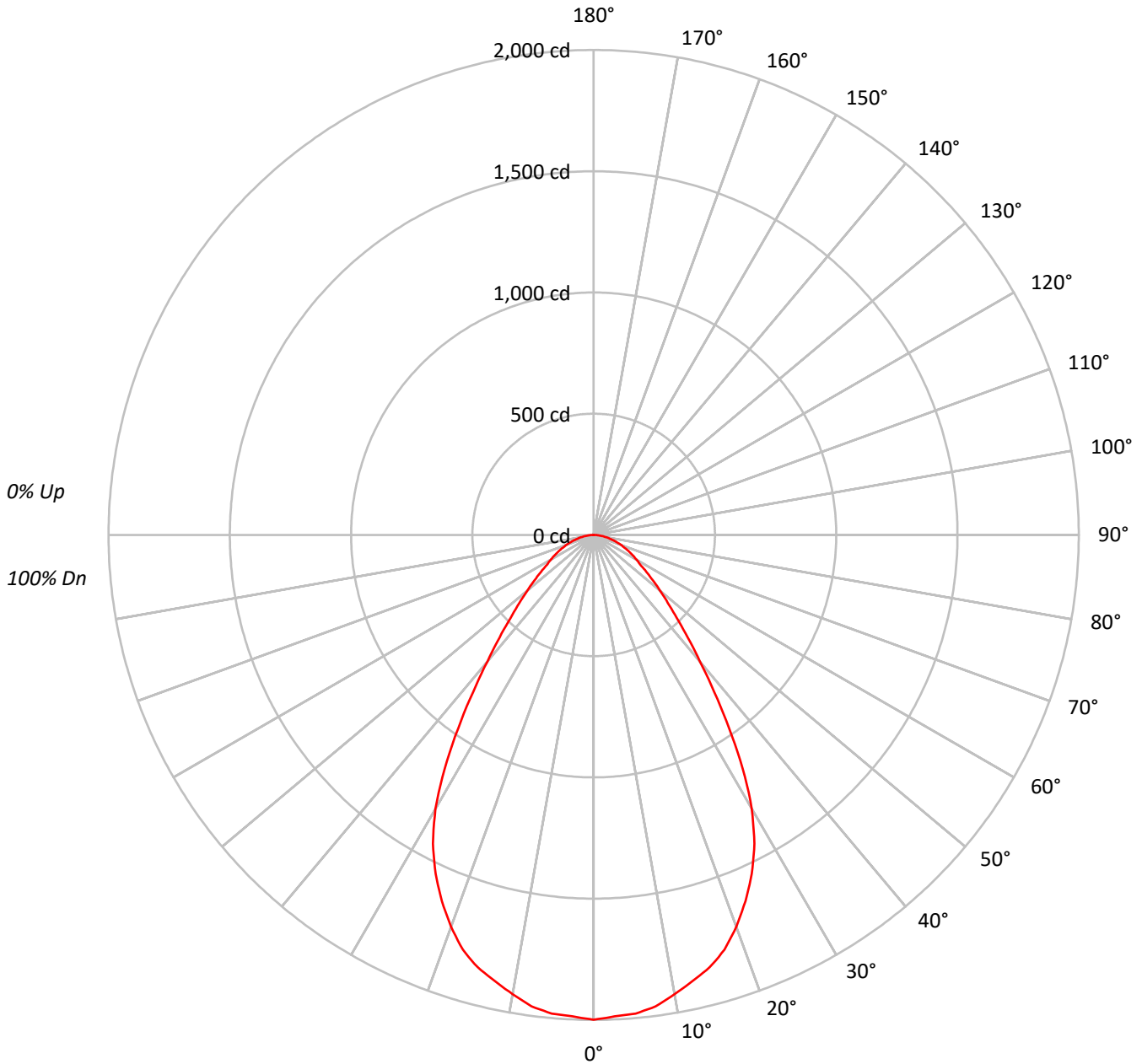
Lumens per Lamp: N/A  
Luminaire Lumens: 2909.1 lumens  
Efficiency: N/A  
Efficacy: 86.3 lumens/watt  
Spacing Criteria (0/90/45): 1.04 / 1.04 / 1.01  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 33.7  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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	111	108	104	101	109	105	102	100	101	99	97	97	95	94	94	92	91	89	89	89	89
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79	79	79	79
3	97	88	82	76	94	87	81	76	84	79	75	81	77	73	79	75	72	70	70	70	70
4	90	80	73	68	88	79	73	67	77	71	67	75	70	66	73	68	65	63	63	63	63
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	63	59	57	57	57	57
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	54	52	52	52	52
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47	47	47	47
8	70	58	51	46	68	58	51	46	56	50	46	55	50	45	54	49	45	44	44	44	44
9	66	54	47	42	65	54	47	42	53	46	42	52	46	42	51	46	42	40	40	40	40
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37	37	37	37

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

	0°
0°	246630
5°	245331
10°	240840
15°	235767
20°	225678
25°	209848
30°	185739
35°	146587
40°	109700
45°	84393
50°	68467
55°	56772
60°	50226
65°	46493
70°	42880
75°	39365
80°	35800
85°	28446



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	187.3	6.4
10°-20°	517.8	17.8
20°-30°	703.0	24.2
30°-40°	609.0	20.9
40°-50°	382.4	13.1
50°-60°	240.5	8.3
60°-70°	158.0	5.4
70°-80°	87.2	3.0
80°-90°	23.9	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°	1408.1	48.4
0°-40°	2017.1	69.3
0°-60°	2640.0	90.8
0°-90°	2909.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2909.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2000	
5°	1981	187
15°	1846	518
25°	1542	703
35°	974	609
45°	484	382
55°	264	241
65°	159	158
75°	83	87
85°	20	24
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1999.5
2.5°	1987.5
5°	1981.4
7.5°	1961.2
10°	1922.9
12.5°	1884.6
15°	1846.3
17.5°	1793.9
20°	1719.3
22.5°	1634.6
25°	1541.9
27.5°	1435.1
30°	1304.1
32.5°	1144.9
35°	973.5
37.5°	816.4
40°	681.3
42.5°	574.5
45°	483.8
47.5°	415.2
50°	356.8
52.5°	306.4
55°	264.0
57.5°	227.7
60°	203.6
62.5°	181.4
65°	159.3
67.5°	137.0
70°	118.9
72.5°	98.8
75°	82.6
77.5°	64.5
80°	50.4
82.5°	34.3
85°	20.1
87.5°	8.1
90°	0.0



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— 0°-180°







(END OF REPORT)