

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: P580462

Luminaire Tested: **HC435D010-HM43040840-41MDW**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P580462  
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-HM43040840-41MDW  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" MEDIUM DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

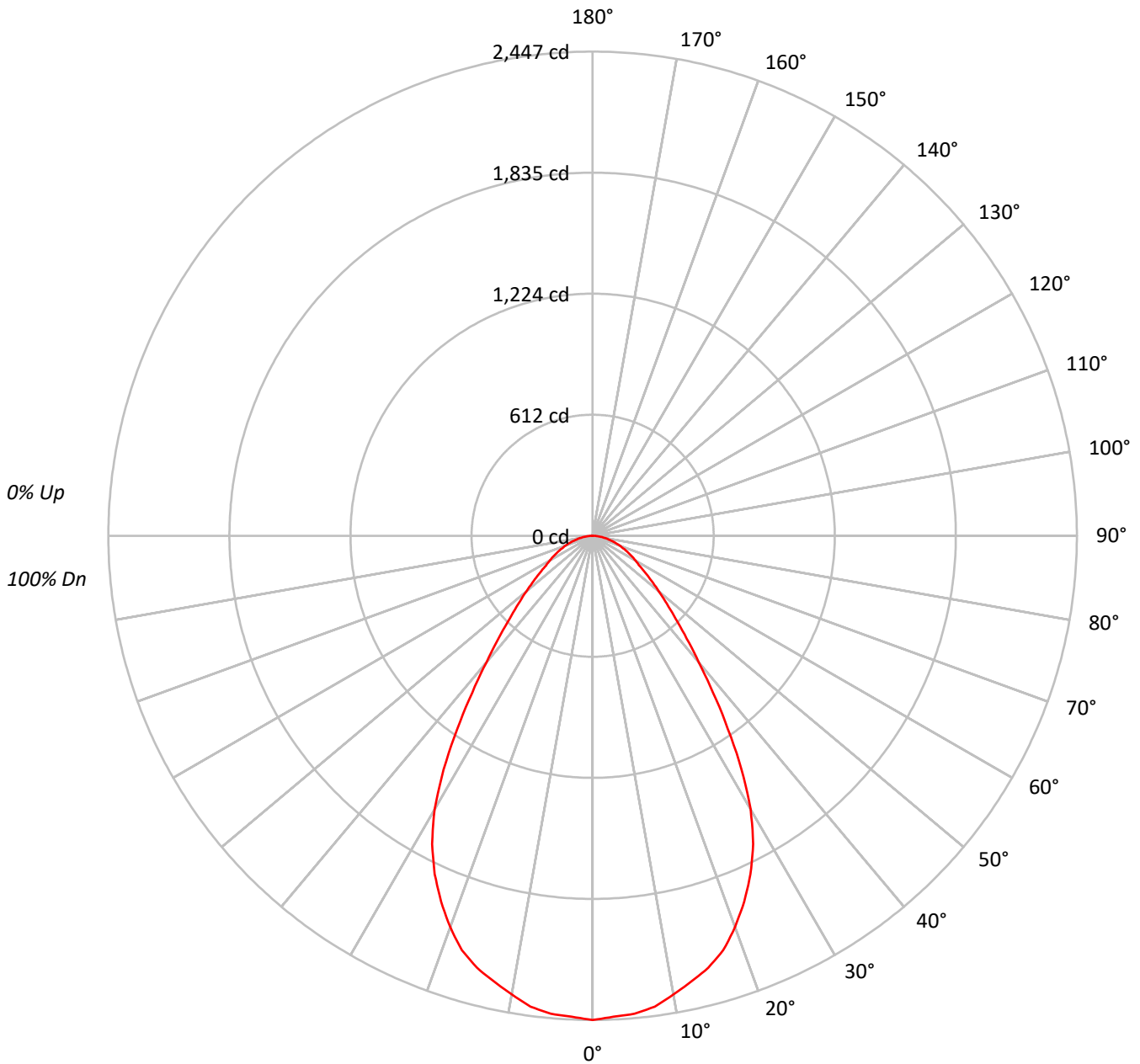
Lumens per Lamp: N/A  
Luminaire Lumens: 3560.8 lumens  
Efficiency: N/A  
Efficacy: 105.7 lumens/watt  
Spacing Criteria (0/90/45): 1.04 / 1.04 / 1.01  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 33.7  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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
1	111	108	104	101	109	105	102	100	101	99	97	97	95	94	94	92	91	89			89
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79			79
3	97	88	82	76	94	87	81	76	84	79	75	81	77	73	79	75	72	70			70
4	90	80	73	68	88	79	73	67	77	71	67	75	70	66	73	68	65	63			63
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	63	59	57			57
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	54	52			52
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47			47
8	70	58	51	46	68	58	51	46	56	50	46	55	50	45	54	49	45	44			44
9	66	54	47	42	65	54	47	42	53	46	42	52	46	42	51	46	42	40			40
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37			37

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

	0°
0°	301876
5°	300293
10°	294797
15°	288582
20°	276240
25°	256869
30°	227357
35°	179443
40°	134271
45°	103284
50°	83799
55°	69503
60°	61475
65°	56884
70°	52509
75°	48229
80°	43827
85°	34956



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	229.3	6.4
10°-20°	633.8	17.8
20°-30°	860.6	24.2
30°-40°	745.5	20.9
40°-50°	468.0	13.1
50°-60°	294.4	8.3
60°-70°	193.4	5.4
70°-80°	106.7	3.0
80°-90°	29.2	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°	1723.6	48.4
0°-40°	2469.1	69.3
0°-60°	3231.5	90.8
0°-90°	3560.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3560.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2447	
5°	2425	229
15°	2260	634
25°	1887	861
35°	1192	745
45°	592	468
55°	323	294
65°	195	193
75°	101	107
85°	25	29
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	2447.4
2.5°	2432.7
5°	2425.3
7.5°	2400.5
10°	2353.7
12.5°	2306.8
15°	2259.9
17.5°	2195.8
20°	2104.5
22.5°	2000.9
25°	1887.4
27.5°	1756.6
30°	1596.3
32.5°	1401.4
35°	1191.7
37.5°	999.2
40°	833.9
42.5°	703.2
45°	592.1
47.5°	508.3
50°	436.7
52.5°	375.0
55°	323.2
57.5°	278.8
60°	249.2
62.5°	222.1
65°	194.9
67.5°	167.8
70°	145.6
72.5°	120.9
75°	101.2
77.5°	78.9
80°	61.7
82.5°	41.9
85°	24.7
87.5°	9.9
90°	0.0



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— 0°-180°







(END OF REPORT)