

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: P580480

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

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P580480  
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-HM43040927-41MDW  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" MEDIUM DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

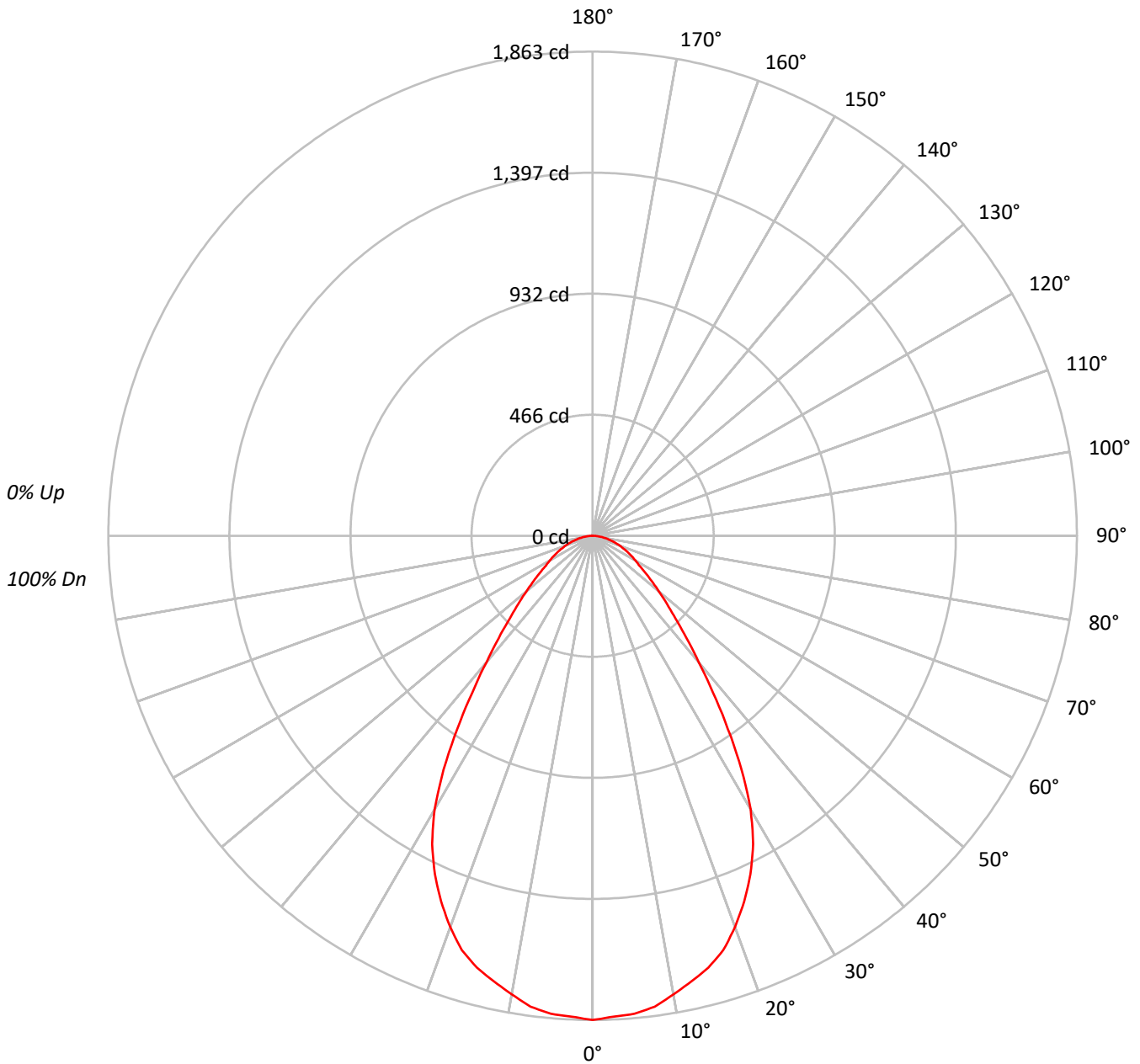
Lumens per Lamp: N/A  
Luminaire Lumens: 2710.6 lumens  
Efficiency: N/A  
Efficacy: 80.4 lumens/watt  
Spacing Criteria (0/90/45): 1.04 / 1.04 / 1.01  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 33.7  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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°	229793
5°	228591
10°	224408
15°	219677
20°	210281
25°	195530
30°	173078
35°	136589
40°	102213
45°	78619
50°	63785
55°	52901
60°	46797
65°	43312
70°	39959
75°	36696
80°	33385
85°	26606



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	174.5	6.4
10°-20°	482.4	17.8
20°-30°	655.1	24.2
30°-40°	567.5	20.9
40°-50°	356.2	13.1
50°-60°	224.1	8.3
60°-70°	147.2	5.4
70°-80°	81.2	3.0
80°-90°	22.2	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°	1312.1	48.4
0°-40°	1879.5	69.3
0°-60°	2459.9	90.8
0°-90°	2710.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2710.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1863	
5°	1846	175
15°	1720	482
25°	1437	655
35°	907	567
45°	451	356
55°	246	224
65°	148	147
75°	77	81
85°	19	22
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1863.0
2.5°	1851.8
5°	1846.2
7.5°	1827.4
10°	1791.7
12.5°	1756.0
15°	1720.3
17.5°	1671.5
20°	1602.0
22.5°	1523.1
25°	1436.7
27.5°	1337.2
30°	1215.2
32.5°	1066.8
35°	907.1
37.5°	760.6
40°	634.8
42.5°	535.2
45°	450.7
47.5°	386.9
50°	332.4
52.5°	285.5
55°	246.0
57.5°	212.2
60°	189.7
62.5°	169.0
65°	148.4
67.5°	127.7
70°	110.8
72.5°	92.1
75°	77.0
77.5°	60.1
80°	47.0
82.5°	31.9
85°	18.8
87.5°	7.5
90°	0.0



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— 0°-180°







(END OF REPORT)