

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: P580410

Luminaire Tested: **HC435D010-HM43040827-41PSMDW**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P580410  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-12)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/9/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC435D010-HM43040827-41PSMDW  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" PLASTIC TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3071.5 lumens  
Efficiency: N/A  
Efficacy: 91.1 lumens/watt  
Spacing Criteria (0/90/45): 1.03 / 1.03 / 0.99  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

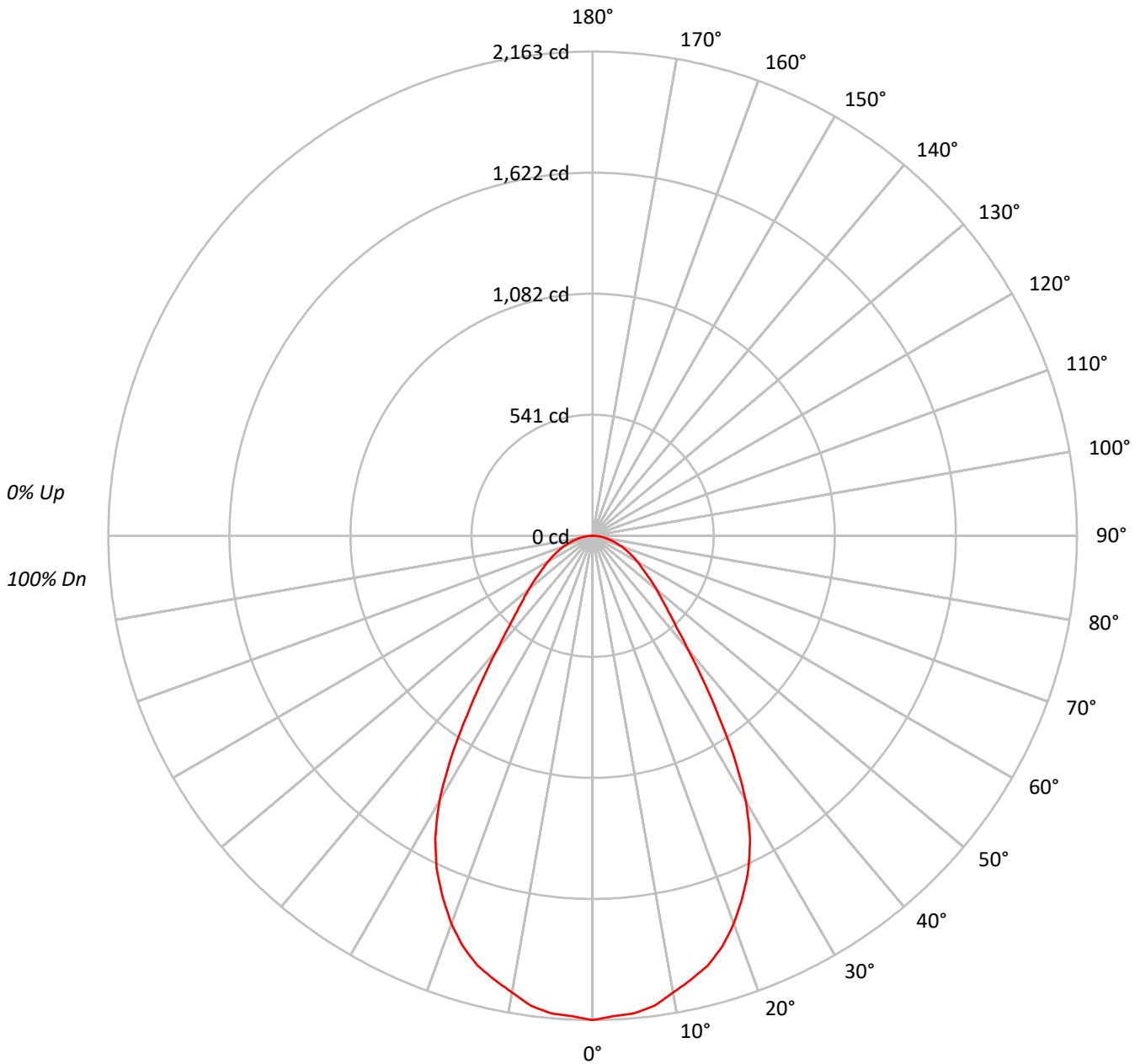
Input Watts (W): 33.7  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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			
1	111	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89			
2	103	97	91	87	101	95	90	86	92	88	84	89	85	82	86	83	80	78			
3	96	88	81	76	94	86	80	75	84	78	74	81	77	73	79	75	72	70			
4	90	80	73	68	88	79	72	67	77	71	66	74	69	65	72	68	65	63			
5	84	74	66	61	82	72	66	60	71	64	60	69	63	59	67	62	59	57			
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	53	52			
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47			
8	70	58	51	46	68	58	51	46	56	50	46	55	50	45	54	49	45	44			
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	40			
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	37			

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

	0°
0°	266797
5°	265129
10°	259490
15°	253746
20°	242020
25°	224029
30°	194855
35°	147144
40°	106657
45°	83346
50°	71269
55°	61632
60°	56788
65°	51951
70°	48578
75°	44512
80°	41696
85°	39910



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	202.2	6.6
10°-20°	556.6	18.1
20°-30°	748.5	24.4
30°-40°	615.4	20.0
40°-50°	378.0	12.3
50°-60°	261.6	8.5
60°-70°	178.3	5.8
70°-80°	99.4	3.2
80°-90°	31.6	1.0
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°	1507.3	49.1
0°-40°	2122.7	69.1
0°-60°	2762.3	89.9
0°-90°	3071.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3071.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2163	
5°	2141	202
15°	1987	557
25°	1646	748
35°	977	615
45°	478	378
55°	287	262
65°	178	178
75°	93	99
85°	28	32
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	2163.0
2.5°	2147.9
5°	2141.3
7.5°	2117.4
10°	2071.8
12.5°	2030.5
15°	1987.1
17.5°	1924.1
20°	1843.8
22.5°	1748.2
25°	1646.1
27.5°	1522.3
30°	1368.1
32.5°	1179.2
35°	977.2
37.5°	803.5
40°	662.4
42.5°	553.8
45°	477.8
47.5°	419.1
50°	371.4
52.5°	327.9
55°	286.6
57.5°	256.3
60°	230.2
62.5°	204.1
65°	178.0
67.5°	156.3
70°	134.7
72.5°	113.0
75°	93.4
77.5°	73.8
80°	58.7
82.5°	43.4
85°	28.2
87.5°	15.2
90°	0.0



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— 0°-180°







(END OF REPORT)