

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: P592793

Luminaire Tested: **HC435D010-HM43040950-41PSMDW**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P592793  
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-HM43040950-41PSMDW  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" PLASTIC TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

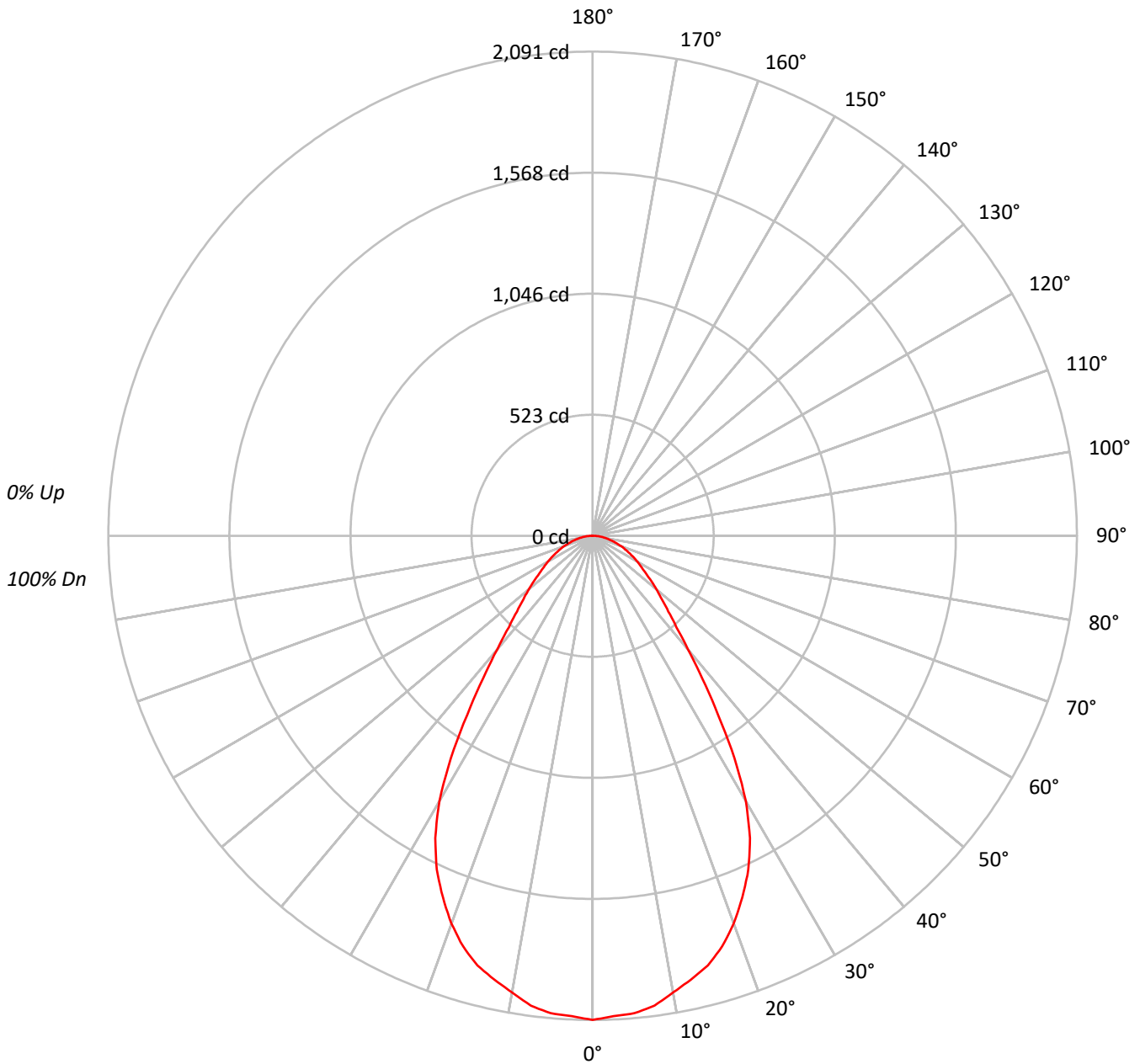
Lumens per Lamp: N/A  
Luminaire Lumens: 2969.1 lumens  
Efficiency: N/A  
Efficacy: 88.1 lumens/watt  
Spacing Criteria (0/90/45): 1.03 / 1.03 / 0.99  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 33.7  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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°	257903
5°	256276
10°	250823
15°	245280
20°	233935
25°	216557
30°	188360
35°	142235
40°	103083
45°	80572
50°	68889
55°	59589
60°	54913
65°	50229
70°	46955
75°	43034
80°	40204
85°	38636



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	195.5	6.6
10°-20°	538.0	18.1
20°-30°	723.5	24.4
30°-40°	594.9	20.0
40°-50°	365.3	12.3
50°-60°	252.9	8.5
60°-70°	172.4	5.8
70°-80°	96.0	3.2
80°-90°	30.6	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°	1457.0	49.1
0°-40°	2051.9	69.1
0°-60°	2670.1	89.9
0°-90°	2969.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2969.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2091	
5°	2070	195
15°	1921	538
25°	1591	723
35°	945	595
45°	462	365
55°	277	253
65°	172	172
75°	90	96
85°	27	31
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	2090.9
2.5°	2076.1
5°	2069.8
7.5°	2046.7
10°	2002.6
12.5°	1962.7
15°	1920.8
17.5°	1859.9
20°	1782.2
22.5°	1689.8
25°	1591.2
27.5°	1471.5
30°	1322.5
32.5°	1139.8
35°	944.6
37.5°	776.7
40°	640.2
42.5°	535.2
45°	461.9
47.5°	405.2
50°	359.0
52.5°	317.0
55°	277.1
57.5°	247.7
60°	222.6
62.5°	197.4
65°	172.1
67.5°	151.2
70°	130.2
72.5°	109.1
75°	90.3
77.5°	71.4
80°	56.6
82.5°	42.0
85°	27.3
87.5°	14.7
90°	0.0



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— 0°-180°







(END OF REPORT)