

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: P592819

Luminaire Tested: **HC440D010-HM43040950-41WDWB**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P592819  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-10)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/9/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC440D010-HM43040950-41WDWB  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, WHITE BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3919.9 lumens  
Efficiency: N/A  
Efficacy: 95.6 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.14 / 1.07  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

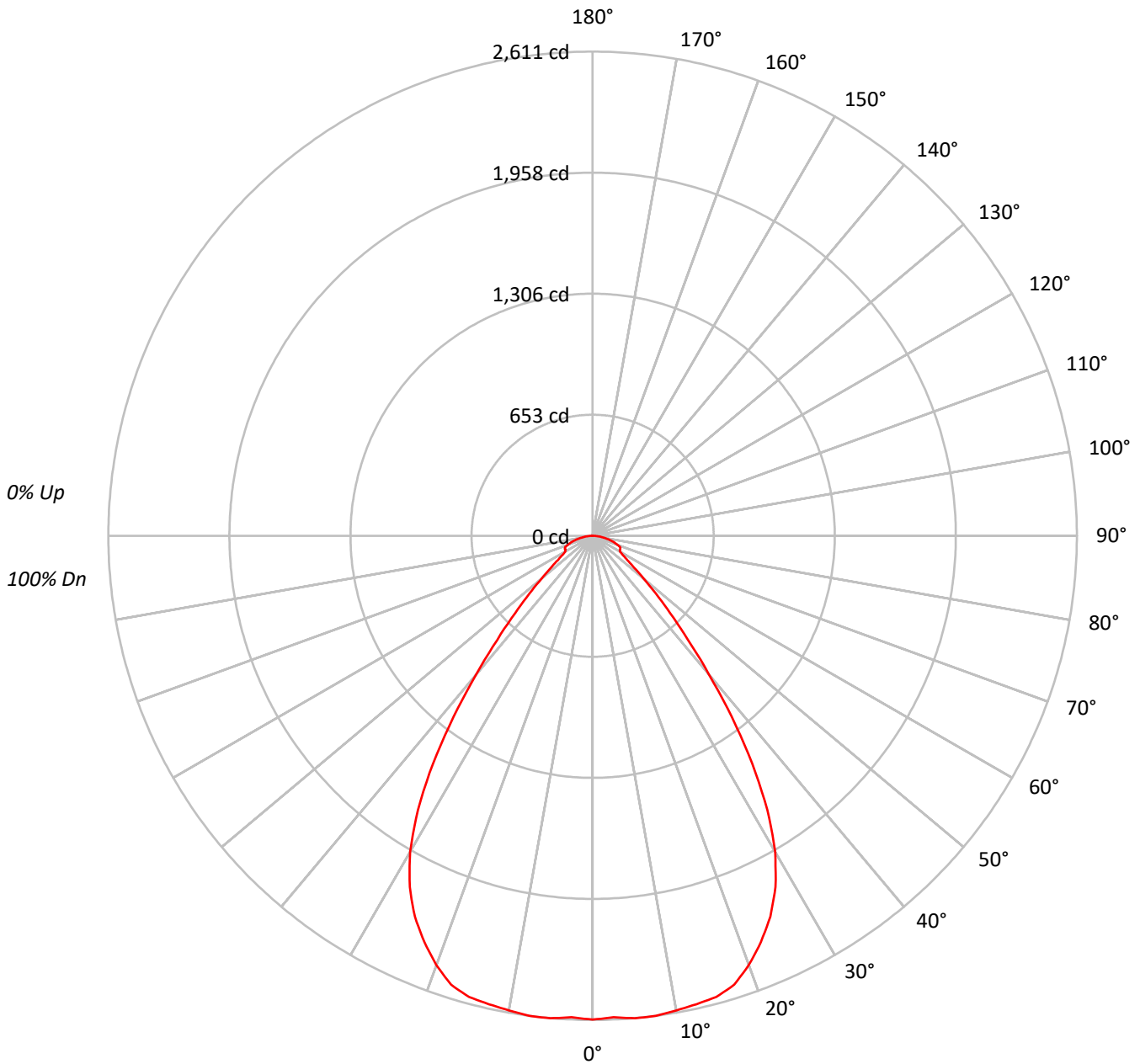
Input Watts (W): 41  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90			90
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	80			80
3	98	89	83	78	95	88	82	78	85	80	76	83	78	75	80	77	74	72			72
4	91	82	75	70	89	81	74	69	78	73	69	76	72	68	74	70	67	65			65
5	86	75	68	63	84	74	68	63	72	67	62	71	65	61	69	64	61	59			59
6	80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	59	56	54			54
7	76	64	57	52	74	64	57	52	62	56	52	61	56	51	60	55	51	49			49
8	71	60	53	48	70	59	53	48	58	52	48	57	51	47	56	51	47	46			46
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42			42
10	64	52	46	41	62	52	45	41	51	45	41	50	45	41	49	44	41	39			39

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

	0°
0°	321809
5°	323335
10°	325558
15°	328806
20°	323337
25°	308450
30°	280254
35°	226047
40°	156846
45°	102970
50°	68985
55°	49095
60°	41962
65°	48215
70°	51716
75°	49802
80°	44821
85°	41183



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	248.9	6.3
10°-20°	723.4	18.5
20°-30°	1033.5	26.4
30°-40°	923.2	23.6
40°-50°	473.5	12.1
50°-60°	215.2	5.5
60°-70°	160.5	4.1
70°-80°	109.2	2.8
80°-90°	32.4	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°	2005.7	51.2
0°-40°	2929.0	74.7
0°-60°	3617.7	92.3
0°-90°	3919.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3919.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2609	
5°	2611	249
15°	2575	723
25°	2266	1033
35°	1501	923
45°	590	474
55°	228	215
65°	165	161
75°	104	109
85°	29	32
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2609.0
2.5°	2599.3
5°	2611.4
7.5°	2611.4
10°	2599.3
12.5°	2587.2
15°	2574.9
17.5°	2538.5
20°	2463.3
22.5°	2370.9
25°	2266.4
27.5°	2135.3
30°	1967.7
32.5°	1753.9
35°	1501.2
37.5°	1231.6
40°	974.1
42.5°	760.4
45°	590.3
47.5°	461.5
50°	359.5
52.5°	281.8
55°	228.3
57.5°	191.9
60°	170.1
62.5°	165.2
65°	165.2
67.5°	160.3
70°	143.4
72.5°	123.9
75°	104.5
77.5°	82.6
80°	63.1
82.5°	46.2
85°	29.1
87.5°	12.1
90°	0.0



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— 0°-180°







(END OF REPORT)