

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: P580571

Luminaire Tested: **HC440D010-HM43040830-41NDW**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P580571  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-3)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/9/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC440D010-HM43040830-41NDW  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" NARROW DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3740.4 lumens  
Efficiency: N/A  
Efficacy: 91.2 lumens/watt  
Spacing Criteria (0/90/45): 1.03 / 1.03 / 1.01  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

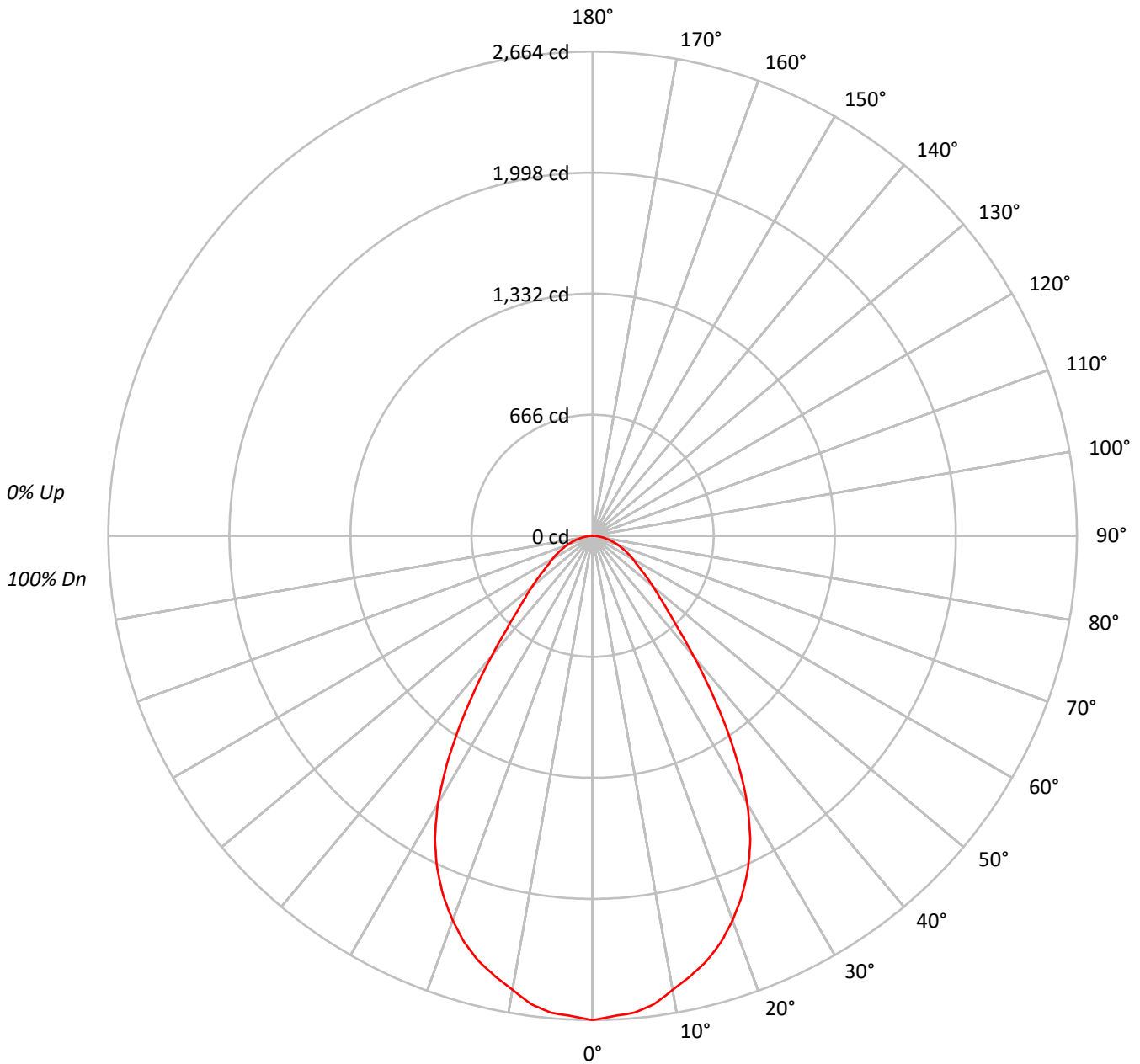
Input Watts (W): 41  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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			
1	111	108	104	101	109	105	102	100	101	99	97	98	96	94	94	92	91	89			
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79			
3	97	88	82	77	95	87	81	76	84	79	75	82	77	74	79	76	73	71			
4	90	81	74	68	88	80	73	68	77	72	67	75	70	66	73	69	65	64			
5	85	74	67	61	83	73	66	61	71	65	60	69	64	60	68	63	59	58			
6	79	68	61	56	78	67	60	55	66	60	55	64	59	55	63	58	54	52			
7	75	63	56	51	73	62	56	51	61	55	50	60	54	50	59	53	50	48			
8	70	59	52	47	69	58	51	46	57	51	46	56	50	46	55	50	46	44			
9	66	55	48	43	65	54	47	43	53	47	43	52	47	43	51	46	42	41			
10	63	51	44	40	62	51	44	40	50	44	40	49	43	39	48	43	39	38			

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

	0°
0°	328605
5°	326158
10°	317668
15°	309294
20°	295457
25°	275256
30°	242383
35°	191158
40°	138748
45°	101958
50°	82955
55°	69568
60°	63054
65°	57905
70°	53915
75°	49277
80°	44466
85°	38494



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	248.4	6.6
10°-20°	679.4	18.2
20°-30°	921.0	24.6
30°-40°	790.2	21.1
40°-50°	466.6	12.5
50°-60°	295.7	7.9
60°-70°	198.7	5.3
70°-80°	109.7	2.9
80°-90°	30.7	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°	1848.7	49.4
0°-40°	2638.9	70.6
0°-60°	3401.3	90.9
0°-90°	3740.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3740.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2664	
5°	2634	248
15°	2422	679
25°	2022	921
35°	1270	790
45°	584	467
55°	324	296
65°	198	199
75°	103	110
85°	27	31
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	2664.1
2.5°	2645.1
5°	2634.2
7.5°	2598.8
10°	2536.3
12.5°	2481.9
15°	2422.1
17.5°	2346.0
20°	2250.9
22.5°	2144.8
25°	2022.5
27.5°	1878.5
30°	1701.8
32.5°	1492.4
35°	1269.5
37.5°	1054.7
40°	861.7
42.5°	701.4
45°	584.5
47.5°	500.2
50°	432.3
52.5°	375.2
55°	323.5
57.5°	282.7
60°	255.6
62.5°	228.3
65°	198.4
67.5°	174.0
70°	149.5
72.5°	125.1
75°	103.4
77.5°	81.6
80°	62.6
82.5°	43.5
85°	27.2
87.5°	10.9
90°	0.0



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— 0°-180°







(END OF REPORT)