

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: P582445

Luminaire Tested: **HC640D010-HM63040830-61WDW**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P582445  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-9)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC640D010-HM63040830-61WDW  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4424.0 lumens  
Efficiency: N/A  
Efficacy: 107.9 lumens/watt  
Spacing Criteria (0/90/45): 1.11 / 1.11 / 1.09  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

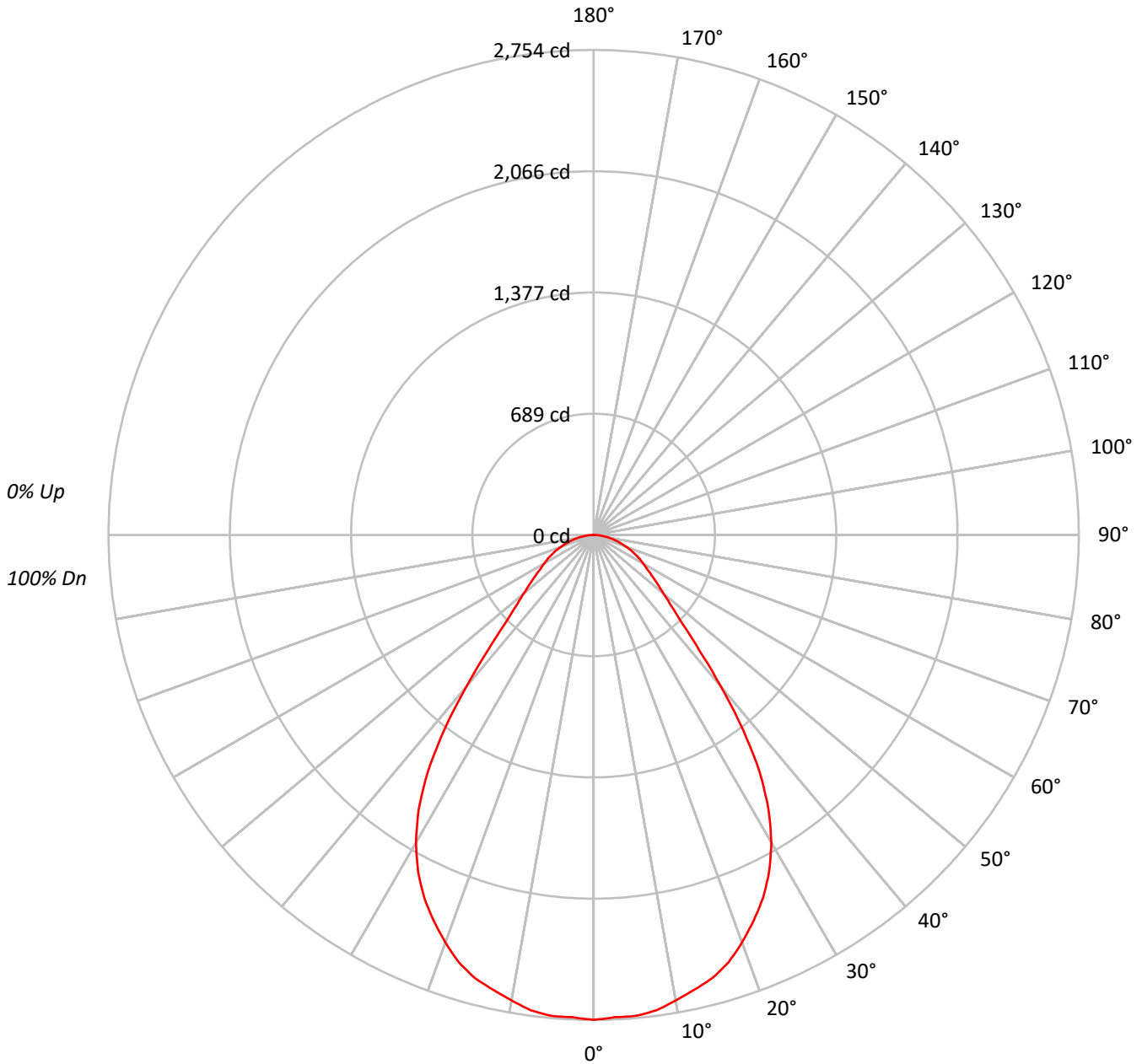
Input Watts (W): 41  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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
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	108	105	102	99	101	98	96	97	95	93	94	92	90	89		
2	103	97	91	87	101	95	90	86	91	87	84	88	85	82	85	83	80	78		
3	96	87	81	76	94	86	80	75	83	78	74	81	76	72	78	74	71	69		
4	89	80	72	67	87	78	72	66	76	70	66	74	69	65	72	67	64	62		
5	84	73	65	60	82	72	65	59	70	64	59	68	63	58	66	61	58	56		
6	78	67	59	54	76	66	59	54	64	58	53	63	57	53	61	56	52	51		
7	73	62	54	49	72	61	54	49	60	53	48	58	52	48	57	52	48	46		
8	69	57	50	45	68	57	50	45	55	49	44	54	48	44	53	48	44	42		
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	44	41	39		
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	47	41	38	36		

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

	0°
0°	150964
5°	150880
10°	149418
15°	147867
20°	143693
25°	137615
30°	127722
35°	109888
40°	80215
45°	54967
50°	44186
55°	38517
60°	35545
65°	33791
70°	31560
75°	29526
80°	26771
85°	22895



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	259.9	5.9
10°-20°	731.7	16.5
20°-30°	1040.7	23.5
30°-40°	1001.9	22.6
40°-50°	576.5	13.0
50°-60°	365.3	8.3
60°-70°	258.6	5.8
70°-80°	147.4	3.3
80°-90°	42.0	0.9
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°	2032.3	45.9
0°-40°	3034.2	68.6
0°-60°	3976.0	89.9
0°-90°	4424.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4424.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2754	
5°	2742	260
15°	2605	732
25°	2275	1041
35°	1642	1002
45°	709	576
55°	403	365
65°	260	259
75°	139	147
85°	36	42
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2753.8
2.5°	2741.8
5°	2741.8
7.5°	2723.6
10°	2684.2
12.5°	2644.9
15°	2605.4
17.5°	2544.9
20°	2463.1
22.5°	2372.1
25°	2275.1
27.5°	2157.1
30°	2017.7
32.5°	1848.1
35°	1642.0
37.5°	1390.6
40°	1120.9
42.5°	884.7
45°	709.0
47.5°	596.8
50°	518.1
52.5°	454.4
55°	403.0
57.5°	357.4
60°	324.2
62.5°	293.9
65°	260.5
67.5°	230.3
70°	196.9
72.5°	166.6
75°	139.4
77.5°	112.1
80°	84.8
82.5°	60.5
85°	36.4
87.5°	15.2
90°	0.0



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— 0°-180°







(END OF REPORT)