

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: P582435

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

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P582435  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-6)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC640D010-HM63040830-61MDW  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4184.5 lumens  
Efficiency: N/A  
Efficacy: 102.1 lumens/watt  
Spacing Criteria (0/90/45): 1.08 / 1.08 / 1.03  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

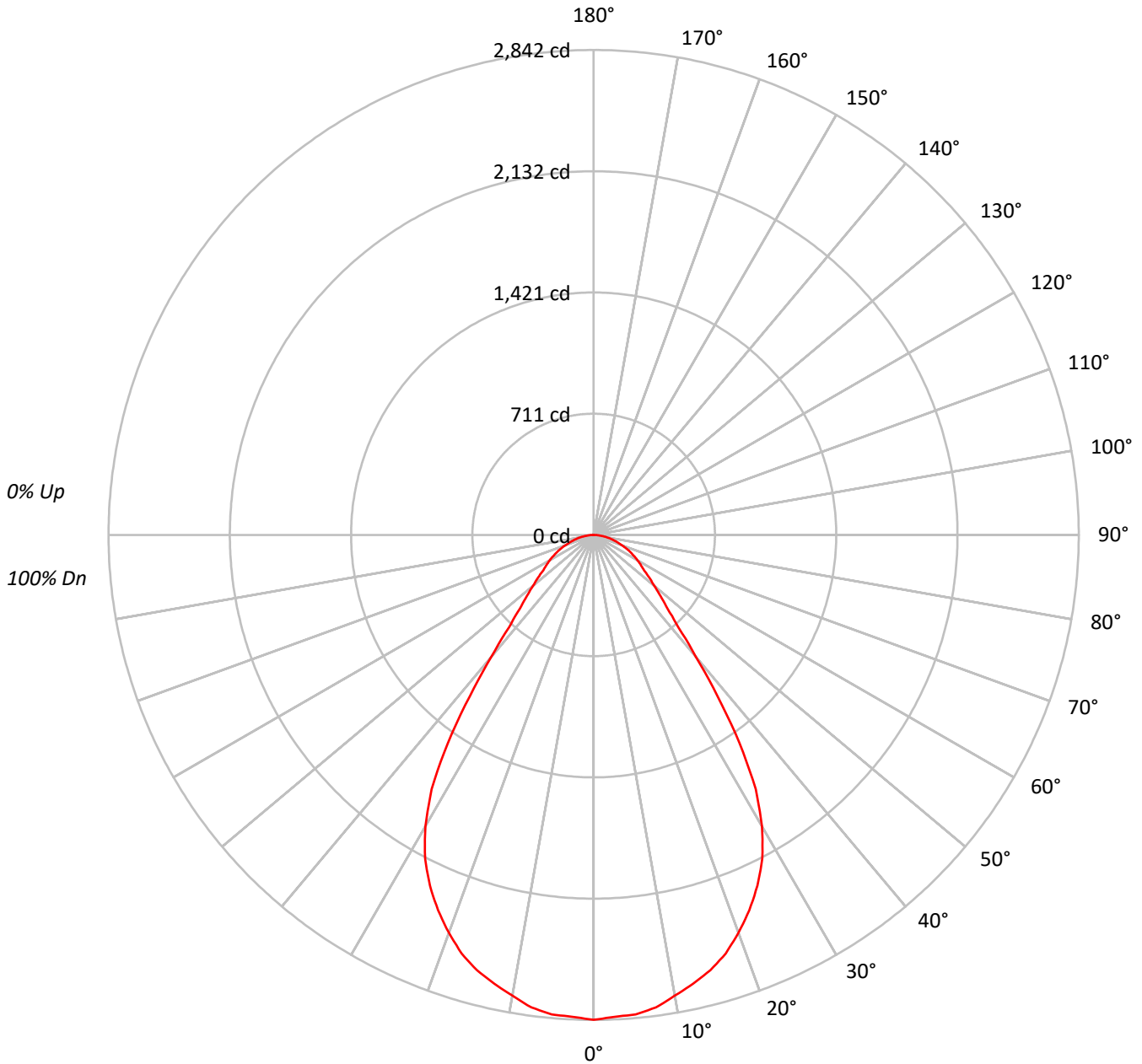
Input Watts (W): 41  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P582435

CATALOG NUMBER: HC640D010-HM63040830-61MDW

### Luminous Intensity Polar Plot





TEST NUMBER: P582435

CATALOG NUMBER: HC640D010-HM63040830-61MDW

**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	111	108	104	101	109	105	102	100	101	99	96	97	95	94	94	92	91	89			89
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79			79
3	97	88	82	76	94	87	81	76	84	79	75	81	77	73	79	75	72	70			70
4	90	80	73	68	88	79	73	67	77	71	67	75	70	66	73	68	65	63			63
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	63	59	57			57
6	79	68	61	55	77	67	60	55	65	59	55	64	58	54	62	58	54	52			52
7	74	63	55	50	73	62	55	50	61	54	50	59	54	50	58	53	49	48			48
8	70	58	51	46	69	58	51	46	57	50	46	55	50	46	54	49	45	44			44
9	66	54	47	43	65	54	47	42	53	47	42	52	46	42	51	46	42	40			40
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	37			37

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

	0°
0°	155772
5°	155205
10°	152608
15°	149921
20°	144738
25°	137240
30°	124842
35°	99749
40°	66553
45°	47439
50°	39530
55°	34455
60°	32552
65°	30639
70°	28162
75°	26307
80°	23898
85°	21008



TEST NUMBER: P582435

CATALOG NUMBER: HC640D010-HM63040830-61MDW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	266.7	6.4
10°-20°	741.7	17.7
20°-30°	1036.5	24.8
30°-40°	913.0	21.8
40°-50°	493.3	11.8
50°-60°	329.8	7.9
60°-70°	233.8	5.6
70°-80°	131.4	3.1
80°-90°	38.3	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°	2044.9	48.9
0°-40°	2957.9	70.7
0°-60°	3781.0	90.4
0°-90°	4184.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4184.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2842	
5°	2820	267
15°	2642	742
25°	2269	1036
35°	1490	913
45°	612	493
55°	360	330
65°	236	234
75°	124	131
85°	33	38
90°	0	



TEST NUMBER: P582435

CATALOG NUMBER: HC640D010-HM63040830-61MDW

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2841.5
2.5°	2826.4
5°	2820.4
7.5°	2793.1
10°	2741.5
12.5°	2693.1
15°	2641.6
17.5°	2571.9
20°	2481.0
22.5°	2381.1
25°	2268.9
27.5°	2138.8
30°	1972.2
32.5°	1766.1
35°	1490.5
37.5°	1190.5
40°	930.0
42.5°	733.1
45°	611.9
47.5°	530.1
50°	463.5
52.5°	409.0
55°	360.5
57.5°	327.1
60°	296.9
62.5°	266.6
65°	236.2
67.5°	206.0
70°	175.7
72.5°	148.4
75°	124.2
77.5°	100.0
80°	75.7
82.5°	54.5
85°	33.4
87.5°	15.2
90°	0.0



Report Generated By 670245859 / DESKTOP-HRDQ47P







— 0°-180°







(END OF REPORT)