

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: P582507

Luminaire Tested: **HC640D010-HM63040930-61MDW**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P582507  
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-HM63040930-61MDW  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3933.9 lumens  
Efficiency: N/A  
Efficacy: 95.9 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

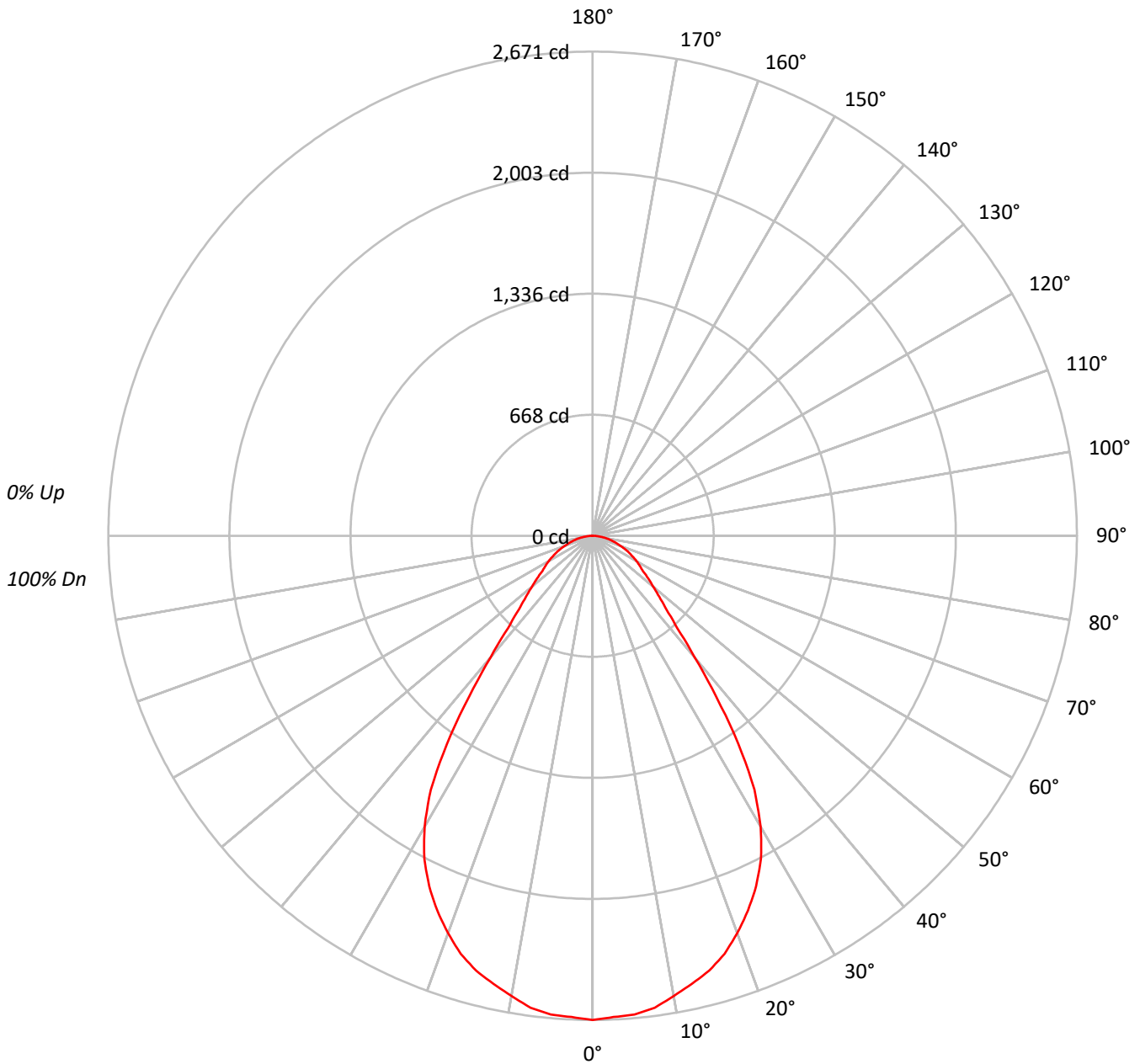
Input Watts (W): 41  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P582507

CATALOG NUMBER: HC640D010-HM63040930-61MDW

### Luminous Intensity Polar Plot





TEST NUMBER: P582507

CATALOG NUMBER: HC640D010-HM63040930-61MDW

**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			
1	111	108	104	101	109	105	102	100	101	99	96	97	95	94	94	92	91	89			
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79			
3	97	88	82	76	94	87	81	76	84	79	75	81	77	73	79	75	72	70			
4	90	80	73	68	88	79	73	67	77	71	67	75	70	66	73	68	65	63			
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	63	59	57			
6	79	68	61	55	77	67	60	55	65	59	55	64	58	54	62	58	54	52			
7	74	63	55	50	73	62	55	50	61	54	50	59	54	50	58	53	49	48			
8	70	58	51	46	69	58	51	46	57	50	46	55	50	46	54	49	45	44			
9	66	54	47	43	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°	146447
5°	145911
10°	143468
15°	140943
20°	136068
25°	129026
30°	117360
35°	93773
40°	62574
45°	44594
50°	37159
55°	32391
60°	30601
65°	28810
70°	26463
75°	24718
80°	22478
85°	19750



TEST NUMBER: P582507

CATALOG NUMBER: HC640D010-HM63040930-61MDW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	250.8	6.4
10°-20°	697.3	17.7
20°-30°	974.4	24.8
30°-40°	858.4	21.8
40°-50°	463.7	11.8
50°-60°	310.1	7.9
60°-70°	219.7	5.6
70°-80°	123.5	3.1
80°-90°	36.0	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°	1922.5	48.9
0°-40°	2780.8	70.7
0°-60°	3554.6	90.4
0°-90°	3933.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3933.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2671	
5°	2652	251
15°	2483	697
25°	2133	974
35°	1401	858
45°	575	464
55°	339	310
65°	222	220
75°	117	124
85°	31	36
90°	0	



TEST NUMBER: P582507

CATALOG NUMBER: HC640D010-HM63040930-61MDW

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2671.4
2.5°	2657.1
5°	2651.5
7.5°	2625.7
10°	2577.3
12.5°	2531.8
15°	2483.4
17.5°	2417.9
20°	2332.4
22.5°	2238.5
25°	2133.1
27.5°	2010.7
30°	1854.0
32.5°	1660.4
35°	1401.2
37.5°	1119.2
40°	874.4
42.5°	689.2
45°	575.2
47.5°	498.5
50°	435.7
52.5°	384.5
55°	338.9
57.5°	307.6
60°	279.1
62.5°	250.6
65°	222.1
67.5°	193.6
70°	165.1
72.5°	139.6
75°	116.7
77.5°	94.0
80°	71.2
82.5°	51.3
85°	31.4
87.5°	14.2
90°	0.0



Report Generated By 670245859 / DESKTOP-HRDQ47P







— 0°-180°







(END OF REPORT)