

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: P582480

Luminaire Tested: **HC640D010-HM63040840-61WDH**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P582480  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-8)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC640D010-HM63040840-61WDH  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4886.5 lumens  
Efficiency: N/A  
Efficacy: 119.2 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.08  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

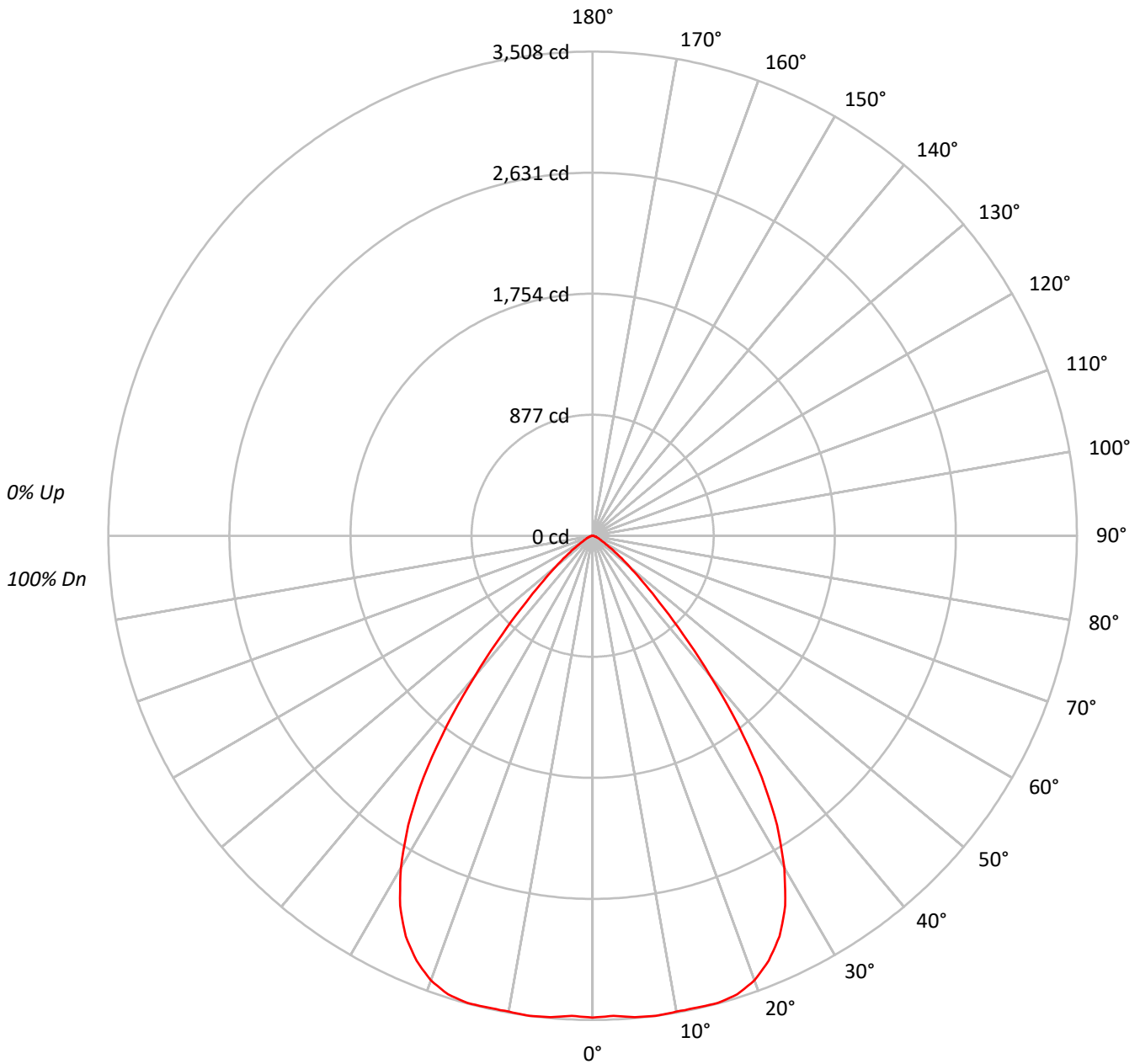
Input Watts (W): 41  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P582480

CATALOG NUMBER: HC640D010-HM63040840-61WDH

### Luminous Intensity Polar Plot





TEST NUMBER: P582480

CATALOG NUMBER: HC640D010-HM63040840-61WDH

**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	100	100
1	113	110	107	105	110	108	105	103	103	101	100	100	98	97	96	95	94	92	92	92	92
2	106	101	96	93	104	99	95	92	96	92	90	93	90	88	90	88	86	84	84	84	84
3	100	93	87	83	98	91	86	82	89	84	81	86	83	80	84	81	78	77	77	77	77
4	94	86	79	75	92	85	79	74	82	77	73	80	76	72	78	75	72	70	70	70	70
5	89	79	73	68	87	78	72	68	76	71	67	75	70	66	73	69	66	64	64	64	64
6	83	73	67	62	82	73	66	62	71	65	61	70	65	61	68	64	60	59	59	59	59
7	79	68	62	57	77	68	61	57	66	60	56	65	60	56	64	59	56	54	54	54	54
8	74	64	57	52	73	63	57	52	62	56	52	61	56	52	60	55	51	50	50	50	50
9	70	59	53	48	69	59	53	48	58	52	48	57	52	48	56	51	48	46	46	46	46
10	66	56	49	45	65	55	49	45	54	49	45	53	48	45	53	48	44	43	43	43	43

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

	0°
0°	191377
5°	192653
10°	194881
15°	198877
20°	199990
25°	193759
30°	175780
35°	142921
40°	94863
45°	52796
50°	29611
55°	16430
60°	9067
65°	6862
70°	4776
75°	3495
80°	2084
85°	2076



TEST NUMBER: P582480

CATALOG NUMBER: HC640D010-HM63040840-61WDH

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	334.1	6.8
10°-20°	988.1	20.2
20°-30°	1456.3	29.8
30°-40°	1302.5	26.7
40°-50°	565.1	11.6
50°-60°	166.1	3.4
60°-70°	53.0	1.1
70°-80°	18.7	0.4
80°-90°	2.7	0.1
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°	2778.5	56.9
0°-40°	4081.0	83.5
0°-60°	4812.1	98.5
0°-90°	4886.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4886.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3491	
5°	3501	334
15°	3504	988
25°	3203	1456
35°	2136	1303
45°	681	565
55°	172	166
65°	53	53
75°	16	19
85°	3	3
90°	0	



TEST NUMBER: P582480

CATALOG NUMBER: HC640D010-HM63040840-61WDH

**CANDELA DISTRIBUTION (FULL):**

0°	
0°	3491.0
2.5°	3481.0
5°	3500.9
7.5°	3507.5
10°	3500.9
12.5°	3500.9
15°	3504.2
17.5°	3484.4
20°	3428.1
22.5°	3332.3
25°	3203.3
27.5°	3021.6
30°	2776.9
32.5°	2485.9
35°	2135.6
37.5°	1735.5
40°	1325.6
42.5°	968.5
45°	681.0
47.5°	485.9
50°	347.2
52.5°	248.0
55°	171.9
57.5°	115.7
60°	82.7
62.5°	66.1
65°	52.9
67.5°	39.7
70°	29.8
72.5°	23.1
75°	16.5
77.5°	13.2
80°	6.6
82.5°	3.3
85°	3.3
87.5°	0.0
90°	0.0



Report Generated By 670245859 / DESKTOP-HRDQ47P







— 0°-180°







(END OF REPORT)