

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: P593290

Luminaire Tested: **HC640D010-HM63040950-61WDH**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P593290  
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-HM63040950-61WDH  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4261.2 lumens  
Efficiency: N/A  
Efficacy: 103.9 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

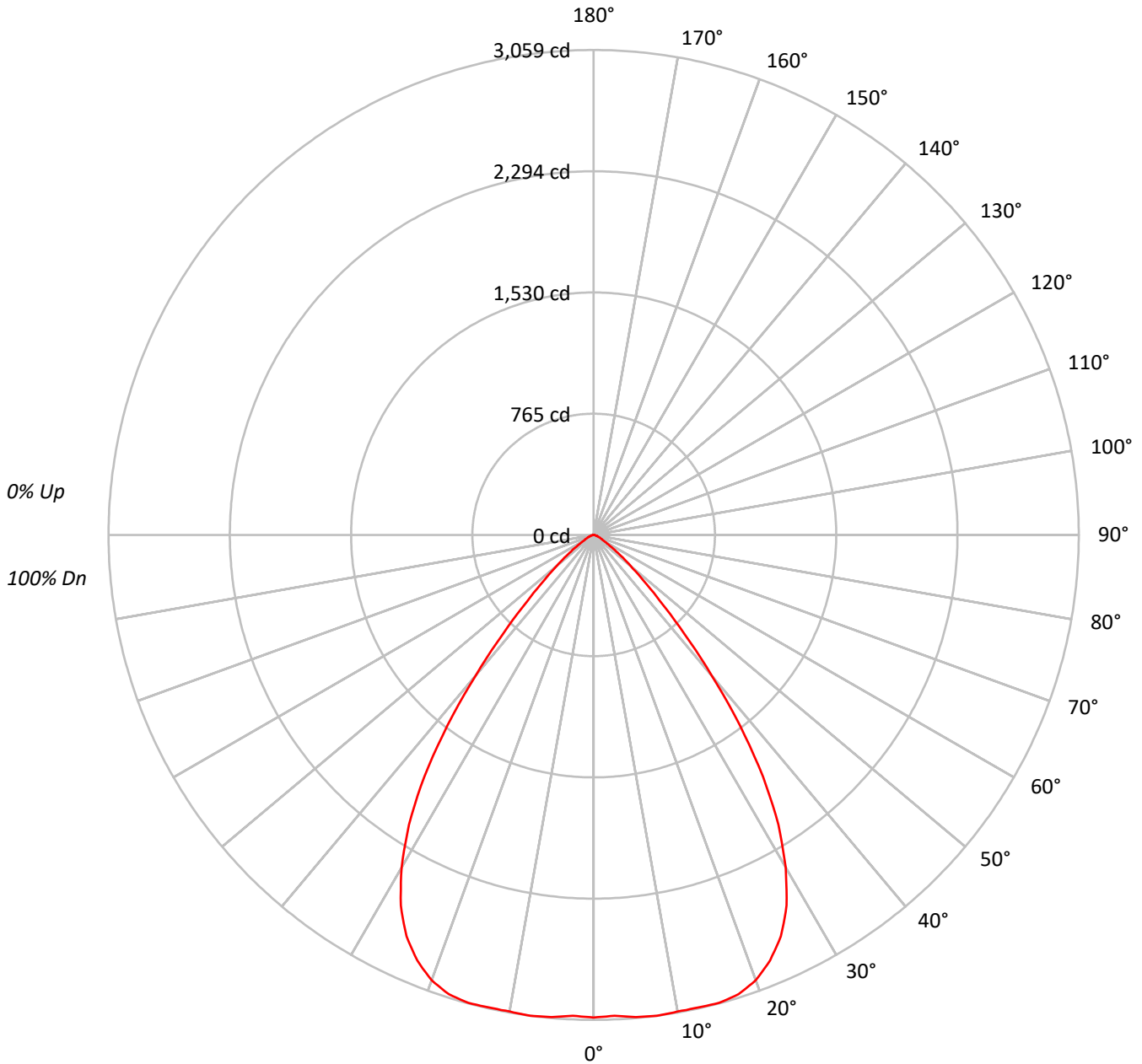
Input Watts (W): 41  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P593290

CATALOG NUMBER: HC640D010-HM63040950-61WDH

### Luminous Intensity Polar Plot





TEST NUMBER: P593290

CATALOG NUMBER: HC640D010-HM63040950-61WDH

**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°	166889
5°	167994
10°	169937
15°	173423
20°	174397
25°	168965
30°	153289
35°	124631
40°	82726
45°	46036
50°	25816
55°	14317
60°	7894
65°	5993
70°	4167
75°	3050
80°	1831
85°	1824



TEST NUMBER: P593290

CATALOG NUMBER: HC640D010-HM63040950-61WDH

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	291.4	6.8
10°-20°	861.6	20.2
20°-30°	1269.9	29.8
30°-40°	1135.8	26.7
40°-50°	492.8	11.6
50°-60°	144.8	3.4
60°-70°	46.2	1.1
70°-80°	16.3	0.4
80°-90°	2.4	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°	2422.9	56.9
0°-40°	3558.7	83.5
0°-60°	4196.3	98.5
0°-90°	4261.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4261.2	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3044	
5°	3053	291
15°	3056	862
25°	2793	1270
35°	1862	1136
45°	594	493
55°	150	145
65°	46	46
75°	14	16
85°	3	2
90°	0	



TEST NUMBER: P593290

CATALOG NUMBER: HC640D010-HM63040950-61WDH

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3044.3
2.5°	3035.5
5°	3052.8
7.5°	3058.6
10°	3052.8
12.5°	3052.8
15°	3055.7
17.5°	3038.4
20°	2989.4
22.5°	2905.8
25°	2793.4
27.5°	2634.8
30°	2421.6
32.5°	2167.8
35°	1862.3
37.5°	1513.4
40°	1156.0
42.5°	844.7
45°	593.8
47.5°	423.8
50°	302.7
52.5°	216.2
55°	149.8
57.5°	100.9
60°	72.0
62.5°	57.6
65°	46.2
67.5°	34.6
70°	26.0
72.5°	20.2
75°	14.4
77.5°	11.5
80°	5.8
82.5°	2.9
85°	2.9
87.5°	0.0
90°	0.0



Report Generated By 670245859 / DESKTOP-HRDQ47P







— 0°-180°







(END OF REPORT)