

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: P593348

Luminaire Tested: **HC650D010-HM64560850-61WDC**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P593348  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-7)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC650D010-HM64560850-61WDC  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, SPECULAR TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6120.4 lumens  
Efficiency: N/A  
Efficacy: 127.5 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.28 / 1.09  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

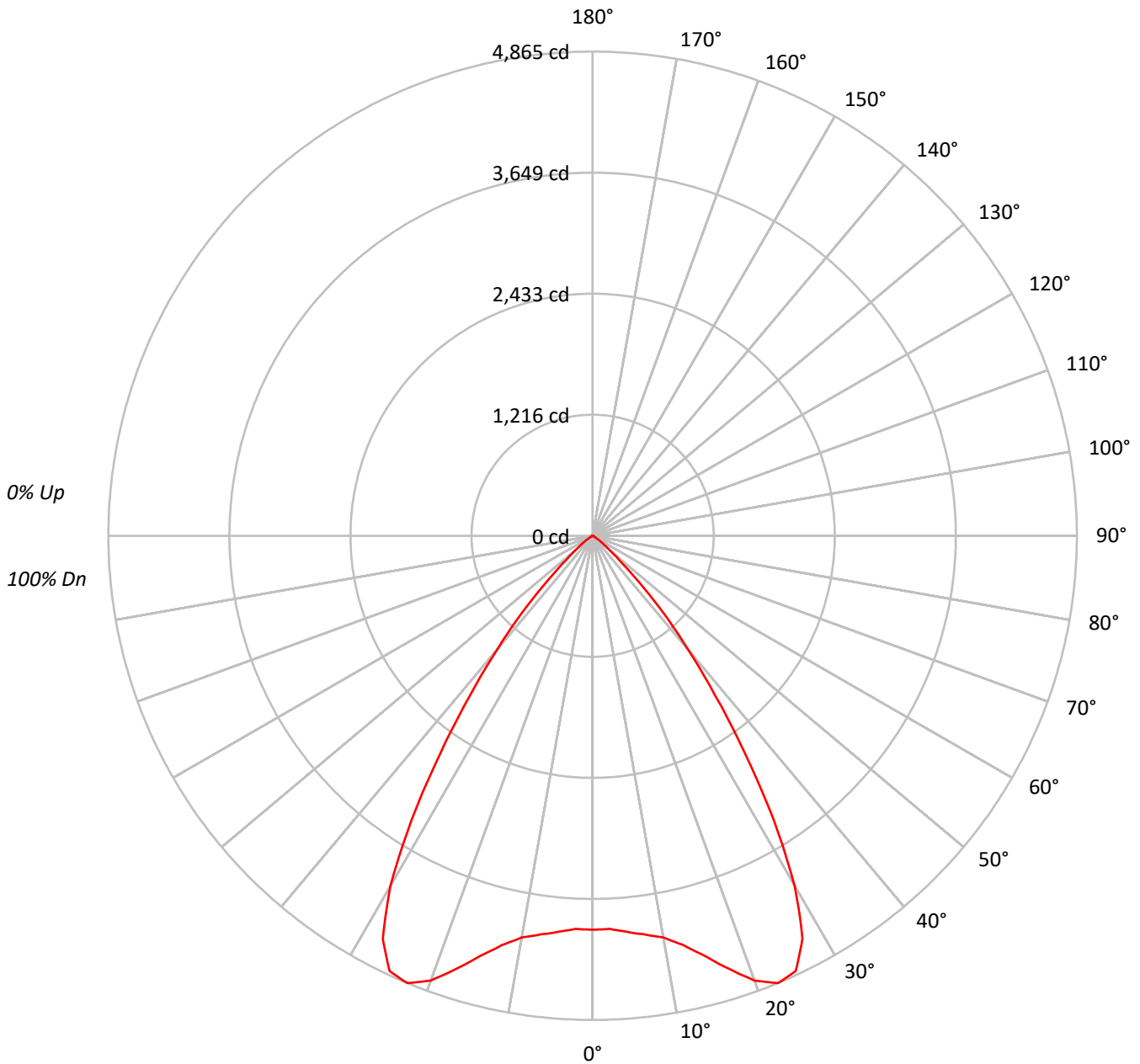
Input Watts (W): 48  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P593348

CATALOG NUMBER: HC650D010-HM64560850-61WDC

### Luminous Intensity Polar Plot





TEST NUMBER: P593348

CATALOG NUMBER: HC650D010-HM64560850-61WDC

**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	108	105	111	108	106	103	104	102	100	100	99	97	97	96	94	93	93	93	93
2	107	102	97	94	105	100	96	93	97	94	91	94	91	89	91	89	87	85	85	85	85
3	101	94	89	85	99	93	88	84	90	86	82	88	84	81	85	82	80	78	78	78	78
4	95	87	81	77	93	86	80	76	84	79	75	82	78	74	80	76	74	72	72	72	72
5	90	81	75	70	88	80	74	70	78	73	69	76	72	68	75	71	68	66	66	66	66
6	85	75	69	64	83	74	68	64	73	67	63	71	67	63	70	66	62	61	61	61	61
7	80	70	63	59	79	69	63	59	68	62	58	67	62	58	66	61	58	56	56	56	56
8	76	65	59	54	74	65	59	54	64	58	54	62	57	54	61	57	53	52	52	52	52
9	71	61	55	50	70	60	54	50	60	54	50	59	53	50	58	53	50	48	48	48	48
10	68	57	51	47	67	57	51	47	56	50	46	55	50	46	54	50	46	45	45	45	45

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

	0°
0°	216978
5°	219893
10°	228141
15°	248112
20°	277393
25°	291973
30°	257033
35°	178283
40°	106457
45°	50602
50°	19095
55°	7981
60°	2500
65°	1972
70°	1218
75°	805
80°	1200
85°	0



TEST NUMBER: P593348

CATALOG NUMBER: HC650D010-HM64560850-61WDC

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	384.6	6.3
10°-20°	1255.3	20.5
20°-30°	2151.0	35.1
30°-40°	1670.5	27.3
40°-50°	552.3	9.0
50°-60°	84.7	1.4
60°-70°	15.0	0.2
70°-80°	5.5	0.1
80°-90°	1.5	0.0
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°	3790.9	61.9
0°-40°	5461.4	89.2
0°-60°	6098.3	99.6
0°-90°	6120.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6120.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3958	
5°	3996	385
15°	4372	1255
25°	4827	2151
35°	2664	1671
45°	653	552
55°	84	85
65°	15	15
75°	4	6
85°	0	2
90°	0	



TEST NUMBER: P593348

CATALOG NUMBER: HC650D010-HM64560850-61WDC

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3958.0
2.5°	3954.2
5°	3995.9
7.5°	4041.5
10°	4098.4
12.5°	4212.3
15°	4371.7
17.5°	4565.2
20°	4754.9
22.5°	4865.0
25°	4827.0
27.5°	4565.2
30°	4060.5
32.5°	3381.2
35°	2664.0
37.5°	2022.7
40°	1487.6
42.5°	1051.2
45°	652.7
47.5°	364.3
50°	223.9
52.5°	136.6
55°	83.5
57.5°	41.7
60°	22.8
62.5°	19.0
65°	15.2
67.5°	11.3
70°	7.6
72.5°	7.6
75°	3.8
77.5°	3.8
80°	3.8
82.5°	3.8
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By 670245859 / DESKTOP-HRDQ47P







— 0°-180°







(END OF REPORT)