

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: P593343

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

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P593343  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-2)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC650D010-HM64560850-61NDH  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" NARROW DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5509.4 lumens  
Efficiency: N/A  
Efficacy: 114.8 lumens/watt  
Spacing Criteria (0/90/45): 0.89 / 0.89 / 0.89  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

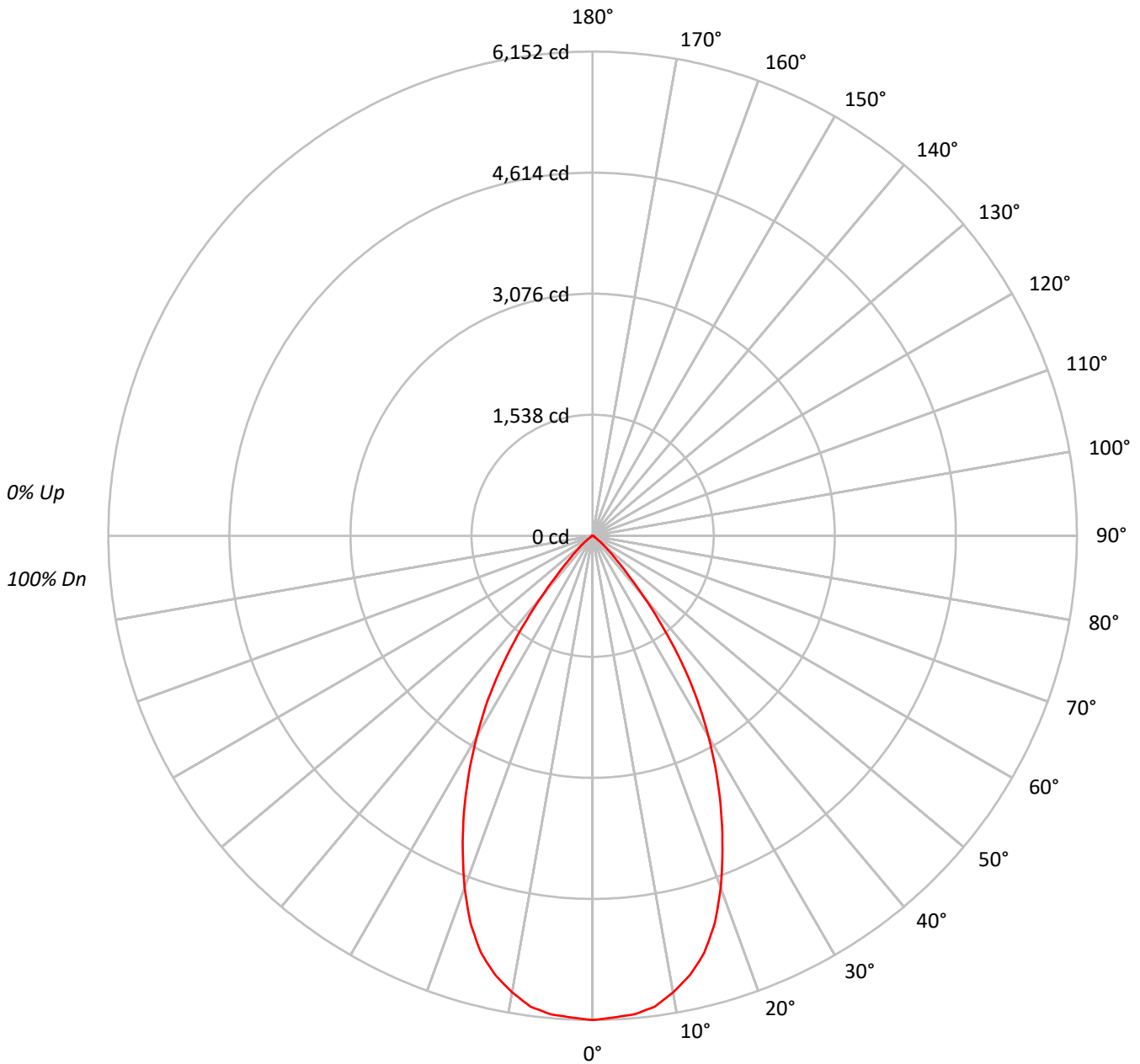
Input Watts (W): 48  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**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	113	111	108	106	111	109	106	104	105	103	101	101	99	98	97	96	95	93			
2	108	103	99	96	106	101	98	94	98	95	92	95	93	90	92	90	89	87			
3	102	96	91	87	100	95	90	86	92	88	85	90	86	84	87	85	82	81			
4	97	90	84	80	95	88	83	79	86	82	78	84	81	78	82	79	77	75			
5	92	84	78	74	91	83	77	73	81	76	73	79	75	72	78	74	71	70			
6	88	79	73	68	86	78	72	68	76	71	68	75	71	67	74	70	67	65			
7	83	74	68	64	82	73	67	63	72	67	63	71	66	63	70	66	62	61			
8	79	70	64	59	78	69	63	59	68	63	59	67	62	59	66	62	59	57			
9	75	66	60	56	74	65	59	56	64	59	55	63	59	55	62	58	55	54			
10	72	62	56	52	71	62	56	52	61	56	52	60	55	52	59	55	52	51			

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

	0°
0°	337259
5°	335834
10°	327883
15°	311250
20°	277422
25°	233693
30°	186187
35°	132836
40°	71434
45°	30600
50°	13919
55°	5075
60°	2500
65°	1972
70°	1811
75°	805
80°	1200
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	576.1	10.5
10°-20°	1520.2	27.6
20°-30°	1760.7	32.0
30°-40°	1217.4	22.1
40°-50°	351.6	6.4
50°-60°	60.5	1.1
60°-70°	15.4	0.3
70°-80°	6.0	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°	3856.9	70.0
0°-40°	5074.4	92.1
0°-60°	5486.5	99.6
0°-90°	5509.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5509.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	6152	
5°	6103	576
15°	5484	1520
25°	3864	1761
35°	1985	1217
45°	395	352
55°	53	61
65°	15	15
75°	4	6
85°	0	2
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	6152.1
2.5°	6125.5
5°	6102.8
7.5°	6034.4
10°	5890.2
12.5°	5715.7
15°	5484.2
17.5°	5157.8
20°	4755.4
22.5°	4311.4
25°	3863.5
27.5°	3404.4
30°	2941.3
32.5°	2478.3
35°	1984.9
37.5°	1472.6
40°	998.2
42.5°	630.1
45°	394.7
47.5°	254.3
50°	163.2
52.5°	98.7
55°	53.1
57.5°	30.4
60°	22.8
62.5°	19.0
65°	15.2
67.5°	11.3
70°	11.3
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



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— 0°-180°







(END OF REPORT)