

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: P593344

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

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P593344  
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: HC650D010-HM64560850-61WDH  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5611.9 lumens  
Efficiency: N/A  
Efficacy: 116.9 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

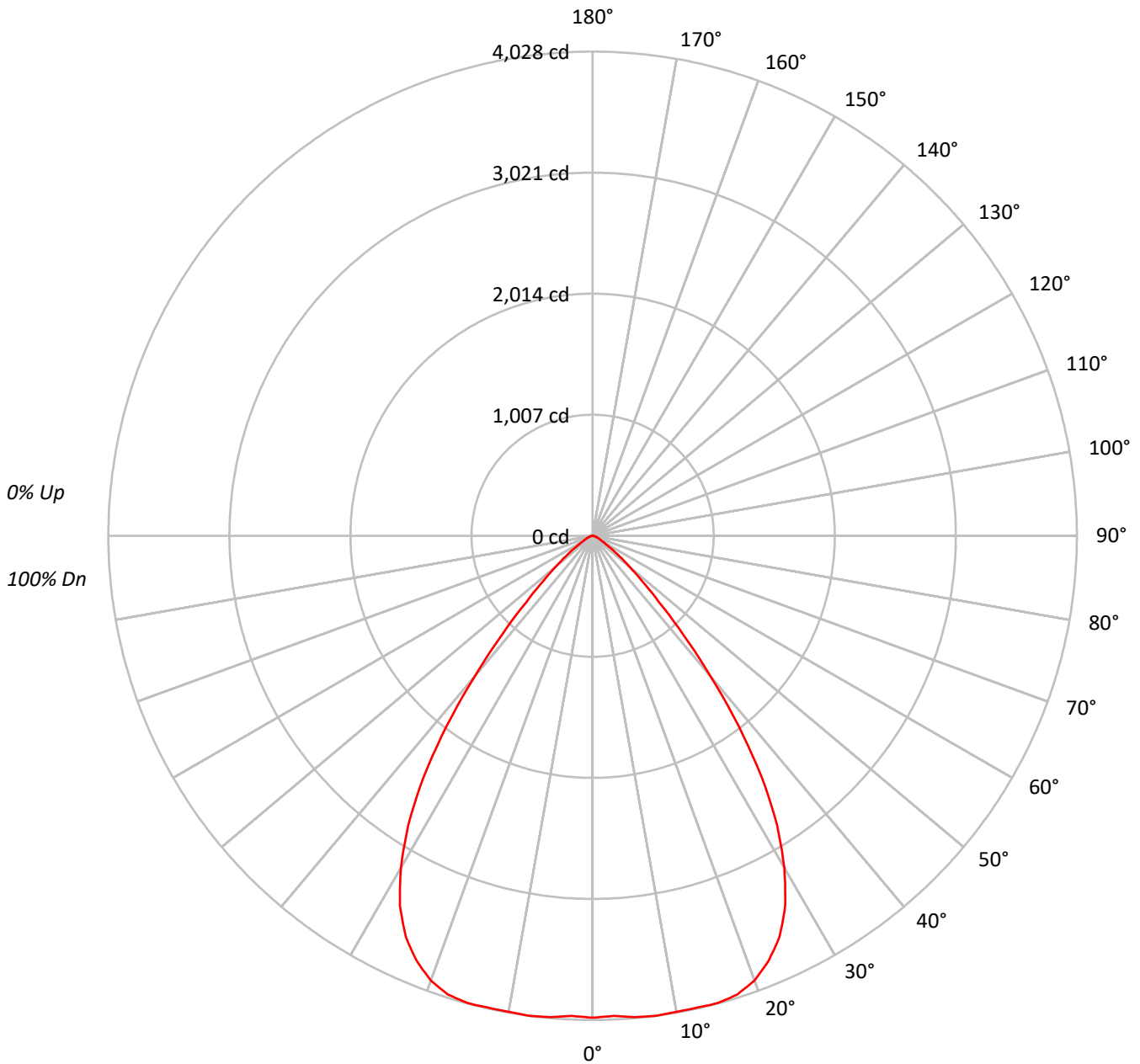
Input Watts (W): 48  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	219780
5°	221246
10°	223805
15°	228401
20°	229678
25°	222521
30°	201873
35°	164136
40°	108947
45°	60634
50°	33995
55°	18876
60°	10416
65°	7874
70°	5466
75°	4024
80°	2399
85°	2390



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	383.7	6.8
10°-20°	1134.7	20.2
20°-30°	1672.4	29.8
30°-40°	1495.9	26.7
40°-50°	649.0	11.6
50°-60°	190.7	3.4
60°-70°	60.8	1.1
70°-80°	21.5	0.4
80°-90°	3.1	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°	3190.9	56.9
0°-40°	4686.8	83.5
0°-60°	5526.5	98.5
0°-90°	5611.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5611.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4009	
5°	4020	384
15°	4024	1135
25°	3679	1672
35°	2453	1496
45°	782	649
55°	198	191
65°	61	61
75°	19	21
85°	4	3
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	4009.1
2.5°	3997.8
5°	4020.5
7.5°	4028.2
10°	4020.5
12.5°	4020.5
15°	4024.4
17.5°	4001.6
20°	3937.0
22.5°	3826.9
25°	3678.8
27.5°	3470.0
30°	3189.1
32.5°	2854.9
35°	2452.6
37.5°	1993.2
40°	1522.4
42.5°	1112.4
45°	782.1
47.5°	558.1
50°	398.6
52.5°	284.7
55°	197.5
57.5°	132.9
60°	95.0
62.5°	75.9
65°	60.7
67.5°	45.6
70°	34.1
72.5°	26.6
75°	19.0
77.5°	15.2
80°	7.6
82.5°	3.8
85°	3.8
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)