

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: P582632

Luminaire Tested: **HC645D010-HM64560927-61MDH**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P582632  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-5)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC645D010-HM64560927-61MDH  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3595.1 lumens  
Efficiency: N/A  
Efficacy: 81.7 lumens/watt  
Spacing Criteria (0/90/45): 1.01 / 1.01 / 0.97  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

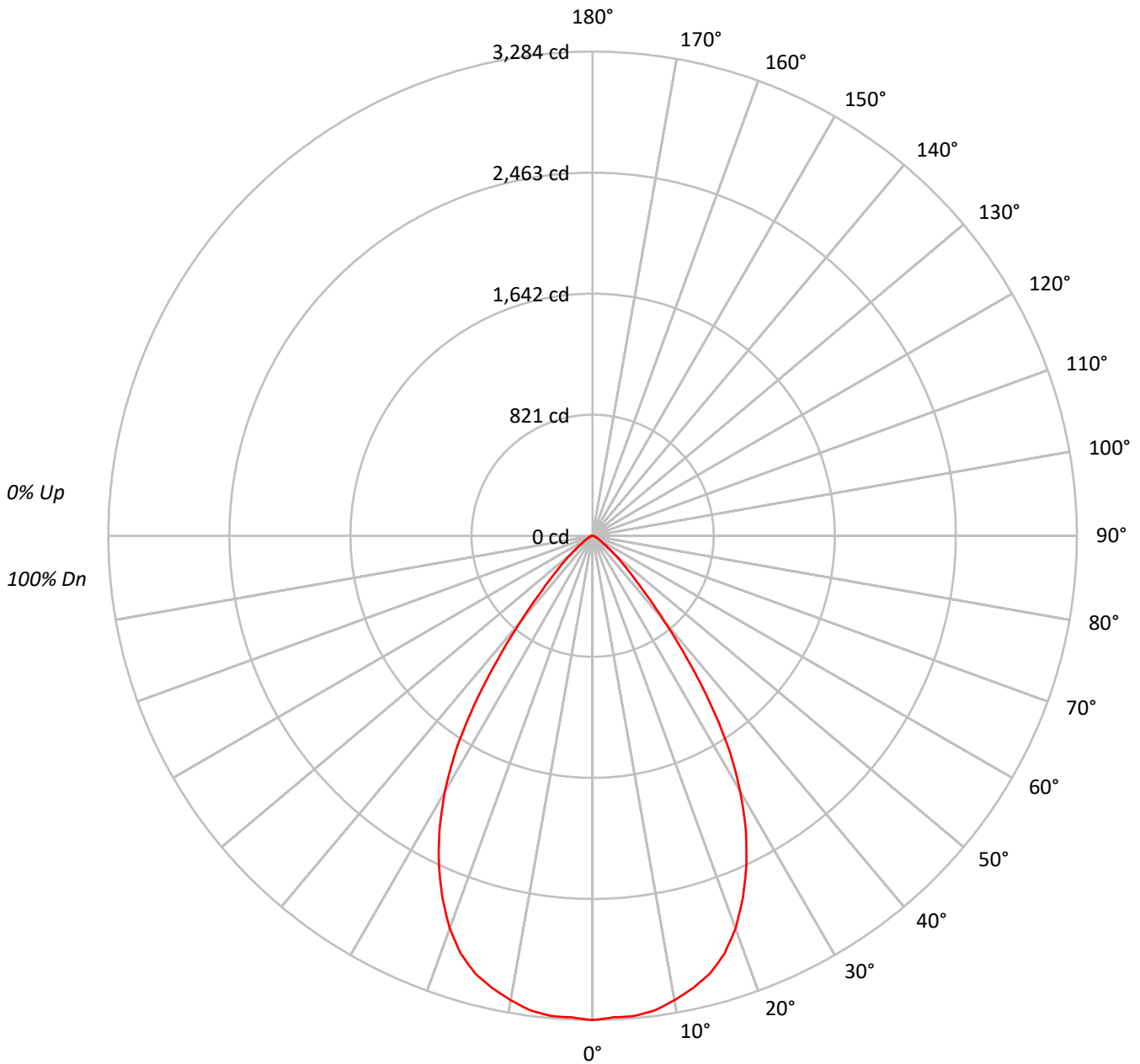
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	108	105	111	108	106	104	104	102	100	100	99	97	97	96	94	93	93	93	93
2	107	102	98	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	83	88	84	81	86	83	80	79	79	79	79
4	96	88	82	77	94	86	81	77	84	79	76	82	78	75	80	77	74	72	72	72	72
5	90	81	75	71	89	80	75	70	79	74	70	77	73	69	75	72	68	67	67	67	67
6	85	76	70	65	84	75	69	65	74	68	64	72	67	64	71	67	63	62	62	62	62
7	81	71	65	60	79	70	64	60	69	64	60	68	63	59	67	62	59	57	57	57	57
8	77	67	60	56	75	66	60	56	65	59	55	64	59	55	63	58	55	53	53	53	53
9	73	62	56	52	72	62	56	52	61	56	52	60	55	52	59	55	51	50	50	50	50
10	69	59	53	49	68	58	52	48	57	52	48	57	52	48	56	51	48	47	47	47	47

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

	0°
0°	180051
5°	179903
10°	178025
15°	174445
20°	165249
25°	149228
30°	126773
35°	93599
40°	54130
45°	28732
50°	16238
55°	8487
60°	5570
65°	3956
70°	2837
75°	2160
80°	1578
85°	1635



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	309.8	8.6
10°-20°	859.7	23.9
20°-30°	1122.1	31.2
30°-40°	857.5	23.9
40°-50°	310.5	8.6
50°-60°	90.2	2.5
60°-70°	32.2	0.9
70°-80°	11.0	0.3
80°-90°	2.1	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°	2291.6	63.7
0°-40°	3149.1	87.6
0°-60°	3549.7	98.7
0°-90°	3595.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3595.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3284	
5°	3269	310
15°	3074	860
25°	2467	1122
35°	1399	857
45°	371	310
55°	89	90
65°	30	32
75°	10	11
85°	3	2
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	3284.4
2.5°	3269.2
5°	3269.2
7.5°	3246.3
10°	3198.1
12.5°	3142.2
15°	3073.7
17.5°	2972.3
20°	2832.6
22.5°	2660.0
25°	2467.1
27.5°	2248.9
30°	2002.7
32.5°	1726.0
35°	1398.6
37.5°	1055.9
40°	756.4
42.5°	522.9
45°	370.6
47.5°	266.5
50°	190.4
52.5°	134.5
55°	88.8
57.5°	63.5
60°	50.8
62.5°	40.6
65°	30.5
67.5°	25.3
70°	17.7
72.5°	12.7
75°	10.2
77.5°	7.6
80°	5.0
82.5°	2.6
85°	2.6
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)