

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: P593306

Luminaire Tested: **HC645D010-HM64560850-61MDH**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P593306  
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-HM64560850-61MDH  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5080.4 lumens  
Efficiency: N/A  
Efficacy: 115.5 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

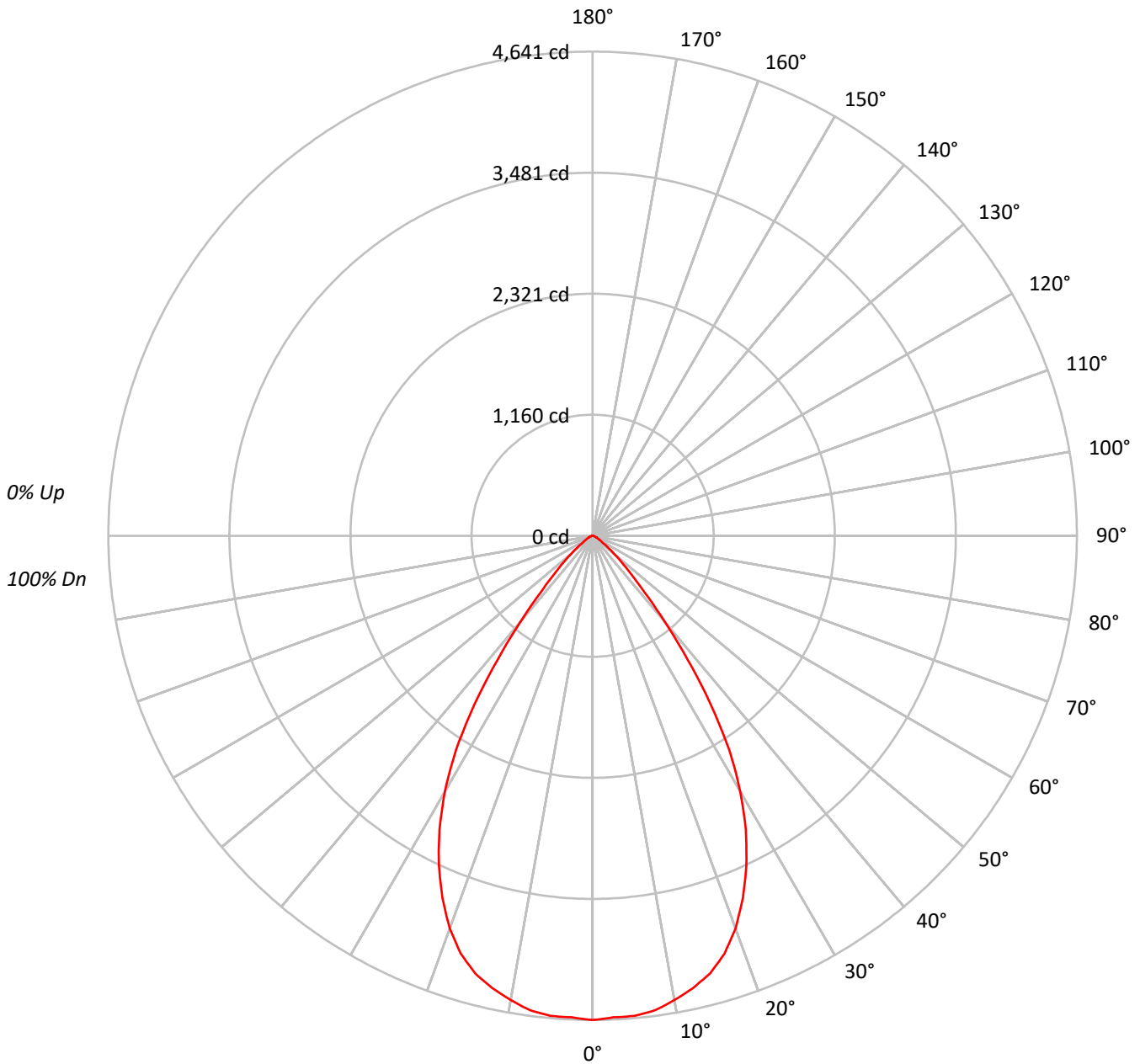
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	254442
5°	254237
10°	251582
15°	246522
20°	233529
25°	210889
30°	179148
35°	132267
40°	76500
45°	40601
50°	22942
55°	11995
60°	7872
65°	5578
70°	4023
75°	3029
80°	2273
85°	2264



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	437.8	8.6
10°-20°	1214.9	23.9
20°-30°	1585.7	31.2
30°-40°	1211.8	23.9
40°-50°	438.8	8.6
50°-60°	127.4	2.5
60°-70°	45.6	0.9
70°-80°	15.6	0.3
80°-90°	2.9	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°	3238.4	63.7
0°-40°	4450.2	87.6
0°-60°	5016.4	98.7
0°-90°	5080.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5080.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4641	
5°	4620	438
15°	4344	1215
25°	3486	1586
35°	1976	1212
45°	524	439
55°	126	127
65°	43	46
75°	14	16
85°	4	3
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	4641.4
2.5°	4620.0
5°	4620.0
7.5°	4587.6
10°	4519.5
12.5°	4440.6
15°	4343.7
17.5°	4200.3
20°	4003.0
22.5°	3759.1
25°	3486.5
27.5°	3178.0
30°	2830.1
32.5°	2439.1
35°	1976.4
37.5°	1492.2
40°	1069.0
42.5°	738.9
45°	523.7
47.5°	376.7
50°	269.0
52.5°	190.1
55°	125.5
57.5°	89.6
60°	71.8
62.5°	57.4
65°	43.0
67.5°	35.9
70°	25.1
72.5°	17.9
75°	14.3
77.5°	10.8
80°	7.2
82.5°	3.6
85°	3.6
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)