

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: P582578

Luminaire Tested: **HC645D010-HM64560830-61MDH**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P582578  
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-HM64560830-61MDH  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4669.1 lumens  
Efficiency: N/A  
Efficacy: 106.1 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

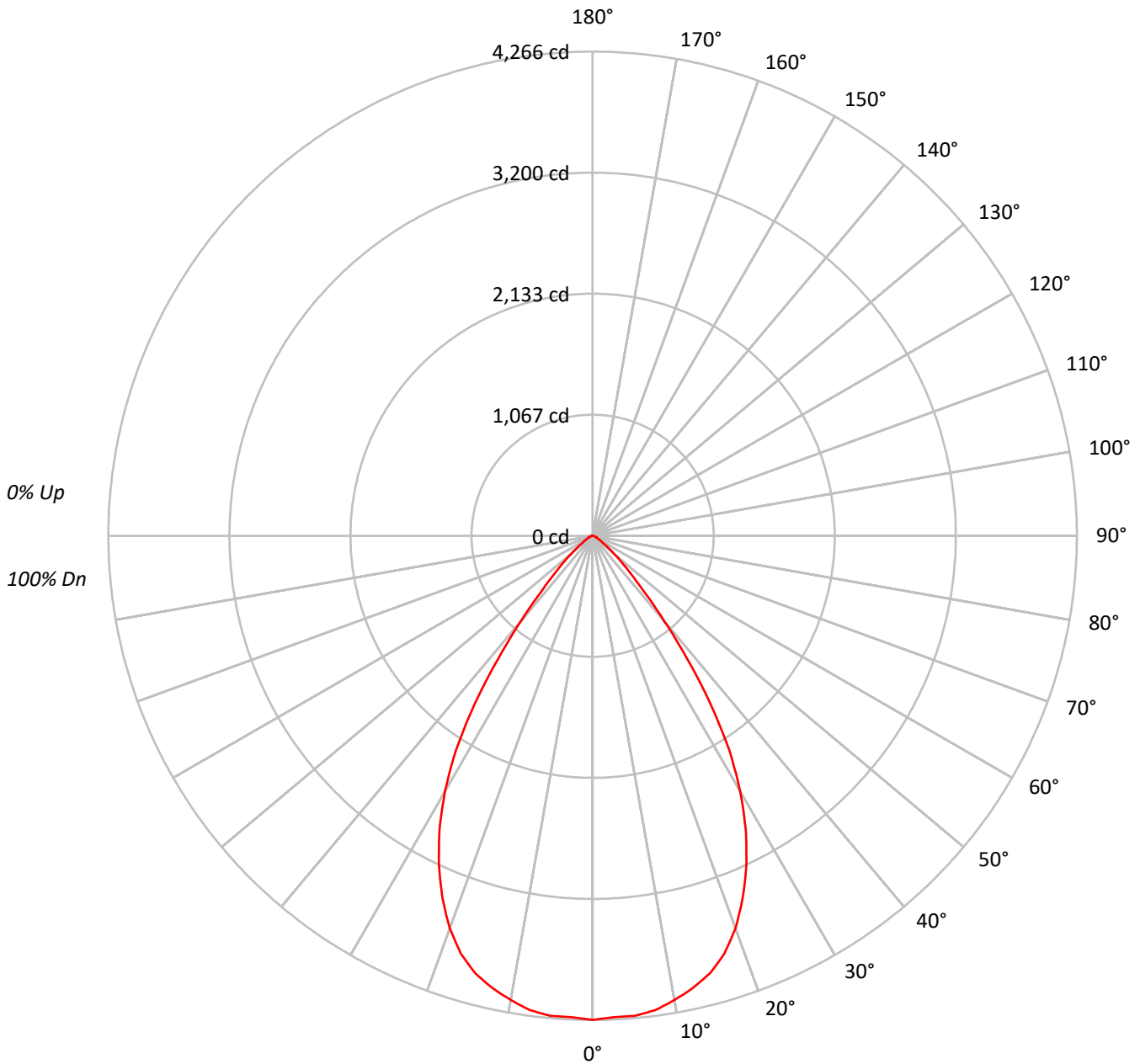
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	233841
5°	233645
10°	231214
15°	226562
20°	214621
25°	193814
30°	164639
35°	121559
40°	70303
45°	37314
50°	21091
55°	11029
60°	7225
65°	5124
70°	3703
75°	2775
80°	2084
85°	2076



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	402.4	8.6
10°-20°	1116.5	23.9
20°-30°	1457.3	31.2
30°-40°	1113.7	23.9
40°-50°	403.2	8.6
50°-60°	117.1	2.5
60°-70°	41.9	0.9
70°-80°	14.3	0.3
80°-90°	2.7	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°	2976.2	63.7
0°-40°	4089.9	87.6
0°-60°	4610.2	98.7
0°-90°	4669.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4669.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4266	
5°	4246	402
15°	3992	1117
25°	3204	1457
35°	1816	1114
45°	481	403
55°	115	117
65°	40	42
75°	13	14
85°	3	3
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	4265.6
2.5°	4245.8
5°	4245.8
7.5°	4216.1
10°	4153.6
12.5°	4081.0
15°	3992.0
17.5°	3860.1
20°	3678.9
22.5°	3454.7
25°	3204.2
27.5°	2920.7
30°	2600.9
32.5°	2241.6
35°	1816.4
37.5°	1371.4
40°	982.4
42.5°	679.0
45°	481.3
47.5°	346.2
50°	247.3
52.5°	174.7
55°	115.4
57.5°	82.5
60°	65.9
62.5°	52.8
65°	39.5
67.5°	33.0
70°	23.1
72.5°	16.5
75°	13.1
77.5°	9.9
80°	6.6
82.5°	3.3
85°	3.3
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)