

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: P593308

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

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P593308  
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: HC645D010-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: 5302.7 lumens  
Efficiency: N/A  
Efficacy: 120.5 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

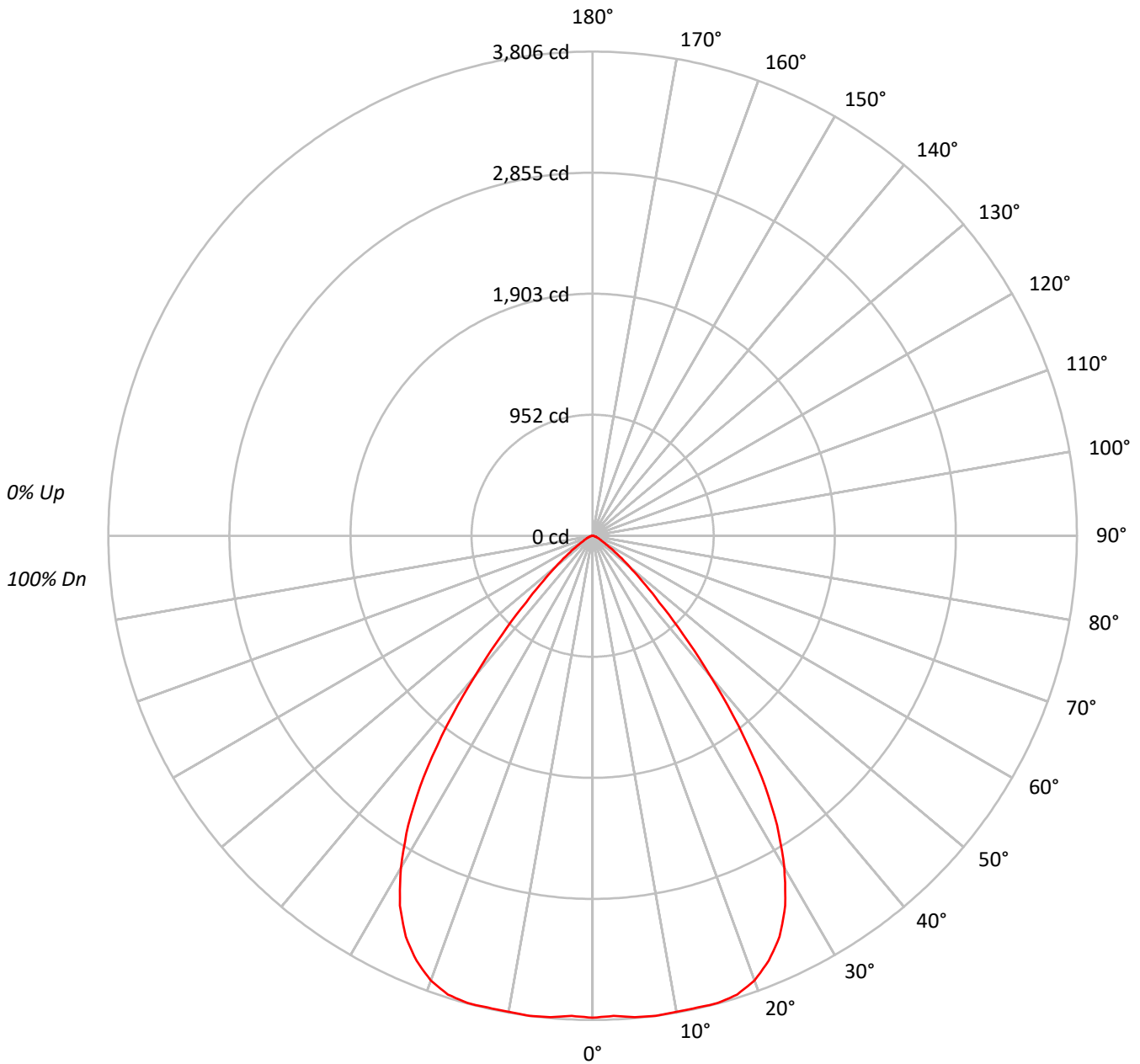
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	207670
5°	209057
10°	211475
15°	215813
20°	217025
25°	210266
30°	190751
35°	155088
40°	102950
45°	57293
50°	32127
55°	17825
60°	9835
65°	7446
70°	5177
75°	3791
80°	2273
85°	2264



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	362.6	6.8
10°-20°	1072.2	20.2
20°-30°	1580.3	29.8
30°-40°	1413.5	26.7
40°-50°	613.2	11.6
50°-60°	180.2	3.4
60°-70°	57.5	1.1
70°-80°	20.3	0.4
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°	3015.1	56.9
0°-40°	4428.6	83.5
0°-60°	5222.0	98.5
0°-90°	5302.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5302.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3788	
5°	3799	363
15°	3803	1072
25°	3476	1580
35°	2317	1413
45°	739	613
55°	186	180
65°	57	58
75°	18	20
85°	4	3
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3788.2
2.5°	3777.5
5°	3799.0
7.5°	3806.2
10°	3799.0
12.5°	3799.0
15°	3802.6
17.5°	3781.0
20°	3720.1
22.5°	3616.0
25°	3476.2
27.5°	3278.9
30°	3013.4
32.5°	2697.7
35°	2317.4
37.5°	1883.4
40°	1438.6
42.5°	1051.1
45°	739.0
47.5°	527.4
50°	376.7
52.5°	269.1
55°	186.5
57.5°	125.5
60°	89.7
62.5°	71.8
65°	57.4
67.5°	43.0
70°	32.3
72.5°	25.1
75°	17.9
77.5°	14.3
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)