

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: P582572

Luminaire Tested: **HC645D010-HM64560827-61WDWB**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P582572  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-10)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC645D010-HM64560827-61WDWB  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, WHITE BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4799.4 lumens  
Efficiency: N/A  
Efficacy: 109.1 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.05  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

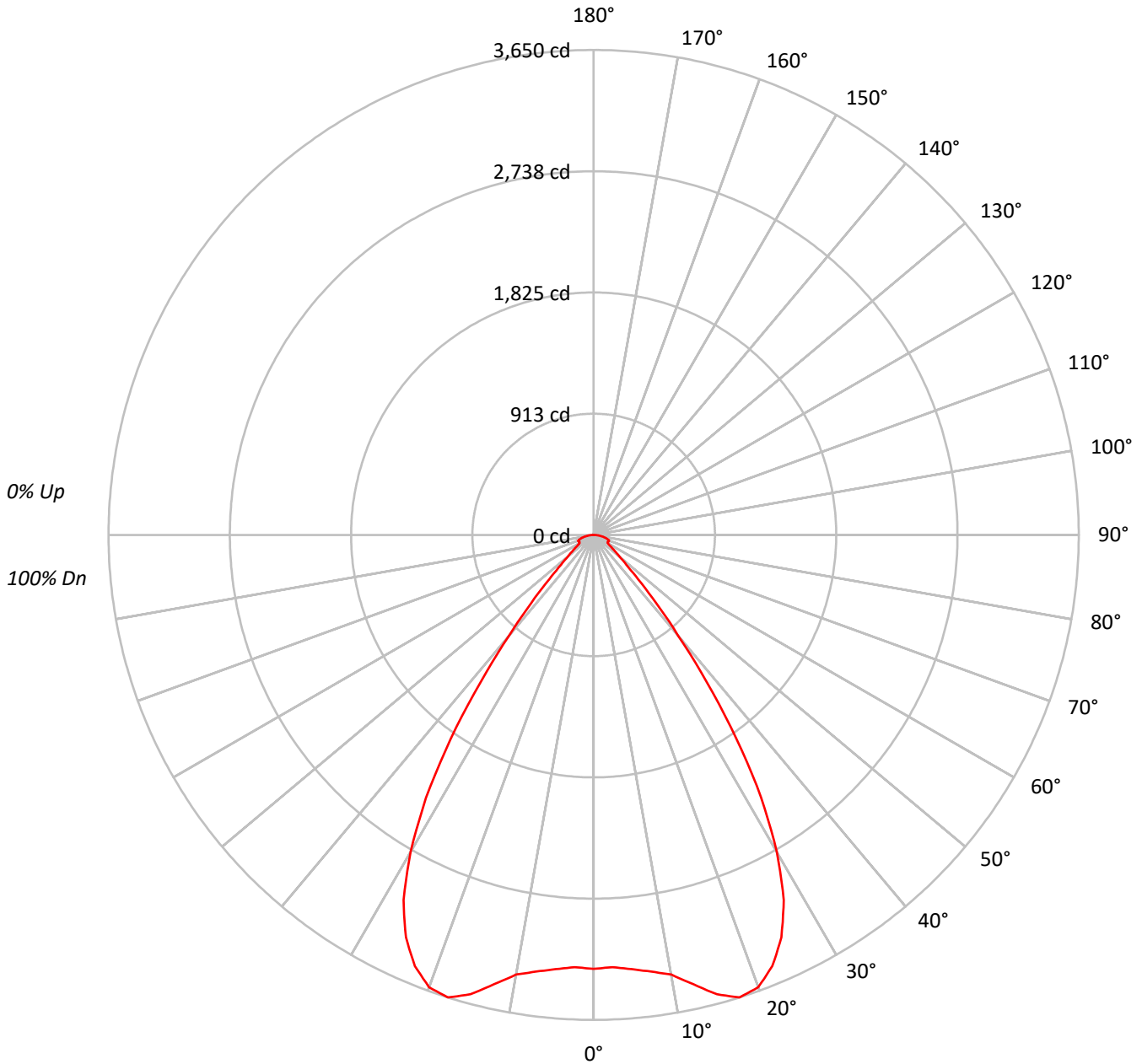
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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
1	112	109	106	103	110	107	104	102	103	100	98	99	97	95	95	94	93	91			91
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	82			82
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	75			75
4	93	85	78	73	91	83	78	73	81	76	72	79	75	71	77	73	70	69			69
5	88	78	72	67	86	77	71	66	75	70	66	74	69	65	72	68	65	63			63
6	83	73	66	61	81	72	66	61	70	65	60	69	64	60	67	63	60	58			58
7	78	68	61	56	77	67	61	56	66	60	56	64	59	55	63	59	55	54			54
8	74	63	57	52	73	63	56	52	61	56	52	60	55	51	59	55	51	50			50
9	70	59	53	48	69	59	52	48	58	52	48	57	51	48	56	51	48	46			46
10	66	56	49	45	65	55	49	45	54	48	45	53	48	44	53	48	44	43			43

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

	0°
0°	179004
5°	180525
10°	187032
15°	203157
20°	211319
25°	202119
30°	174432
35°	125601
40°	70754
45°	36670
50°	21859
55°	15751
60°	13387
65°	15449
70°	19571
75°	20694
80°	20205
85°	19184



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	315.7	6.6
10°-20°	1009.6	21.0
20°-30°	1509.0	31.4
30°-40°	1153.5	24.0
40°-50°	402.9	8.4
50°-60°	153.5	3.2
60°-70°	120.5	2.5
70°-80°	101.9	2.1
80°-90°	32.8	0.7
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°	2834.3	59.1
0°-40°	3987.8	83.1
0°-60°	4544.3	94.7
0°-90°	4799.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4799.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3265	
5°	3280	316
15°	3580	1010
25°	3342	1509
35°	1877	1154
45°	473	403
55°	165	154
65°	119	121
75°	98	102
85°	30	33
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3265.3
2.5°	3256.1
5°	3280.5
7.5°	3314.1
10°	3359.9
12.5°	3463.6
15°	3579.6
17.5°	3649.8
20°	3622.3
22.5°	3512.4
25°	3341.5
27.5°	3097.4
30°	2755.6
32.5°	2346.7
35°	1876.8
37.5°	1391.5
40°	988.7
42.5°	692.8
45°	473.0
47.5°	332.7
50°	256.3
52.5°	201.4
55°	164.8
57.5°	134.3
60°	122.1
62.5°	119.1
65°	119.1
67.5°	125.2
70°	122.1
72.5°	113.0
75°	97.7
77.5°	82.3
80°	64.0
82.5°	45.7
85°	30.5
87.5°	12.2
90°	0.0



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— 0°-180°







(END OF REPORT)