

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: P582637

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

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P582637  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-12)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC645D010-HM64560927-61PSMDW  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" PLASTIC TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3592.5 lumens  
Efficiency: N/A  
Efficacy: 81.6 lumens/watt  
Spacing Criteria (0/90/45): 1.09 / 1.09 / 1.04  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

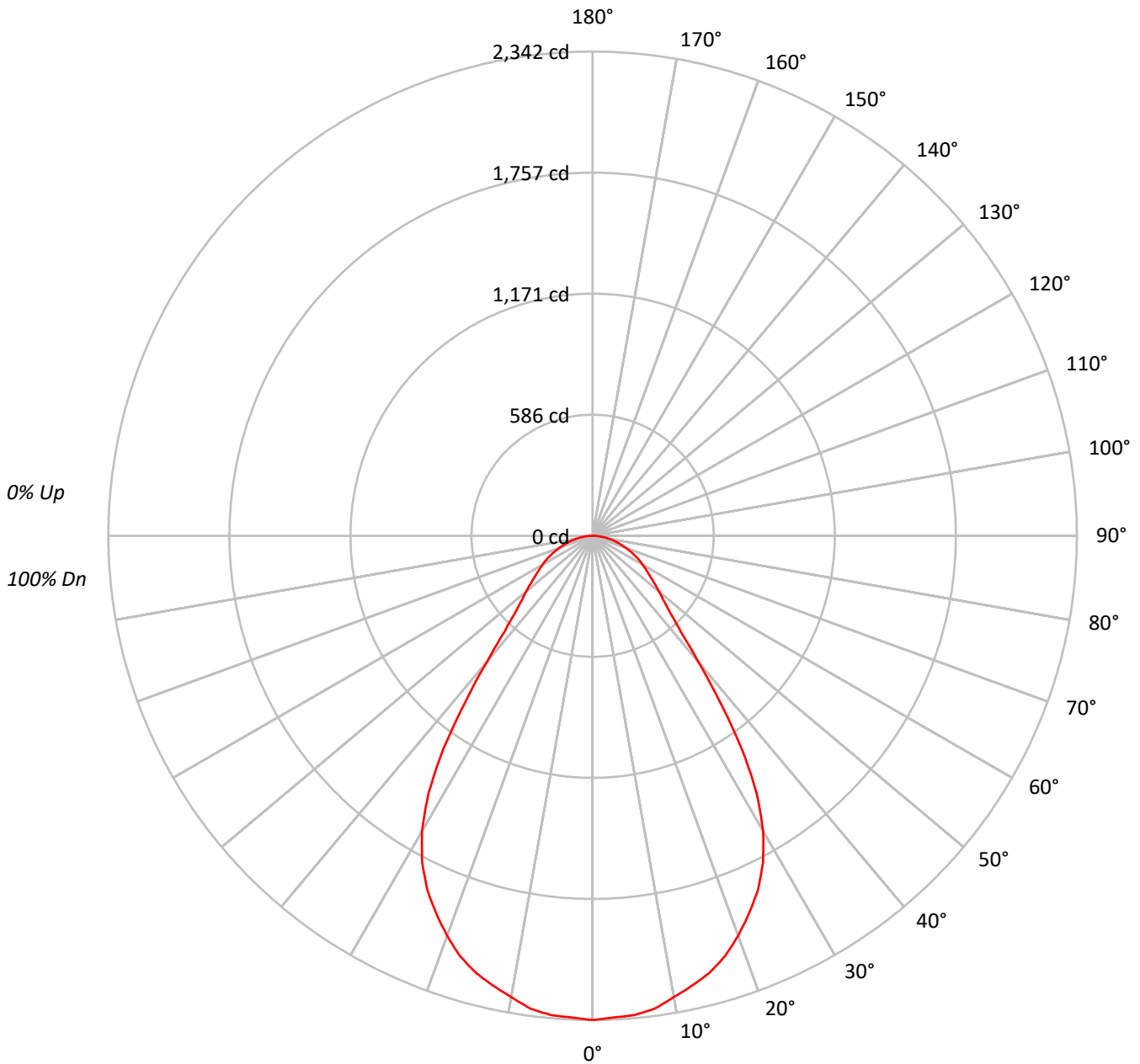
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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			
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88			
2	103	96	91	86	101	95	90	85	91	87	83	88	85	82	85	82	80	78			
3	96	87	81	75	94	86	80	75	83	78	73	80	76	72	78	74	71	69			
4	89	80	72	67	87	78	72	66	76	70	65	74	69	65	72	67	64	62			
5	84	73	65	60	82	72	65	59	70	64	59	68	63	58	66	62	58	56			
6	78	67	59	54	77	66	59	54	64	58	53	63	57	53	61	56	53	51			
7	73	62	54	49	72	61	54	49	60	53	49	58	53	48	57	52	48	46			
8	69	57	50	45	68	57	50	45	56	49	45	54	49	44	53	48	44	43			
9	65	53	46	41	64	53	46	41	52	46	41	51	45	41	50	45	41	39			
10	62	50	43	38	60	49	43	38	49	42	38	48	42	38	47	42	38	36			

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

	0°
0°	128400
5°	128054
10°	126144
15°	124144
20°	120060
25°	114351
30°	104415
35°	84069
40°	56663
45°	41314
50°	35717
55°	32257
60°	30612
65°	28965
70°	27248
75°	25798
80°	24025
85°	22329



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	220.2	6.1
10°-20°	614.3	17.1
20°-30°	863.1	24.0
30°-40°	768.3	21.4
40°-50°	429.4	12.0
50°-60°	305.9	8.5
60°-70°	222.5	6.2
70°-80°	128.8	3.6
80°-90°	40.0	1.1
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°	1697.6	47.3
0°-40°	2465.9	68.6
0°-60°	3201.1	89.1
0°-90°	3592.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3592.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2342	
5°	2327	220
15°	2187	614
25°	1890	863
35°	1256	768
45°	533	429
55°	338	306
65°	223	223
75°	122	129
85°	36	40
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2342.2
2.5°	2332.2
5°	2327.0
7.5°	2306.7
10°	2266.1
12.5°	2228.1
15°	2187.4
17.5°	2131.7
20°	2058.0
22.5°	1976.9
25°	1890.5
27.5°	1784.0
30°	1649.5
32.5°	1476.9
35°	1256.2
37.5°	1007.5
40°	791.8
42.5°	631.9
45°	532.9
47.5°	467.0
50°	418.8
52.5°	375.6
55°	337.5
57.5°	307.1
60°	279.2
62.5°	253.7
65°	223.3
67.5°	197.9
70°	170.0
72.5°	144.6
75°	121.8
77.5°	99.0
80°	76.1
82.5°	55.8
85°	35.5
87.5°	17.7
90°	0.0



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— 0°-180°







(END OF REPORT)