

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: P582636

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

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P582636  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-3)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC645D010-HM64560927-61NDW  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" NARROW DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3453.0 lumens  
Efficiency: N/A  
Efficacy: 78.5 lumens/watt  
Spacing Criteria (0/90/45): 1.06 / 1.06 / 1.03  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

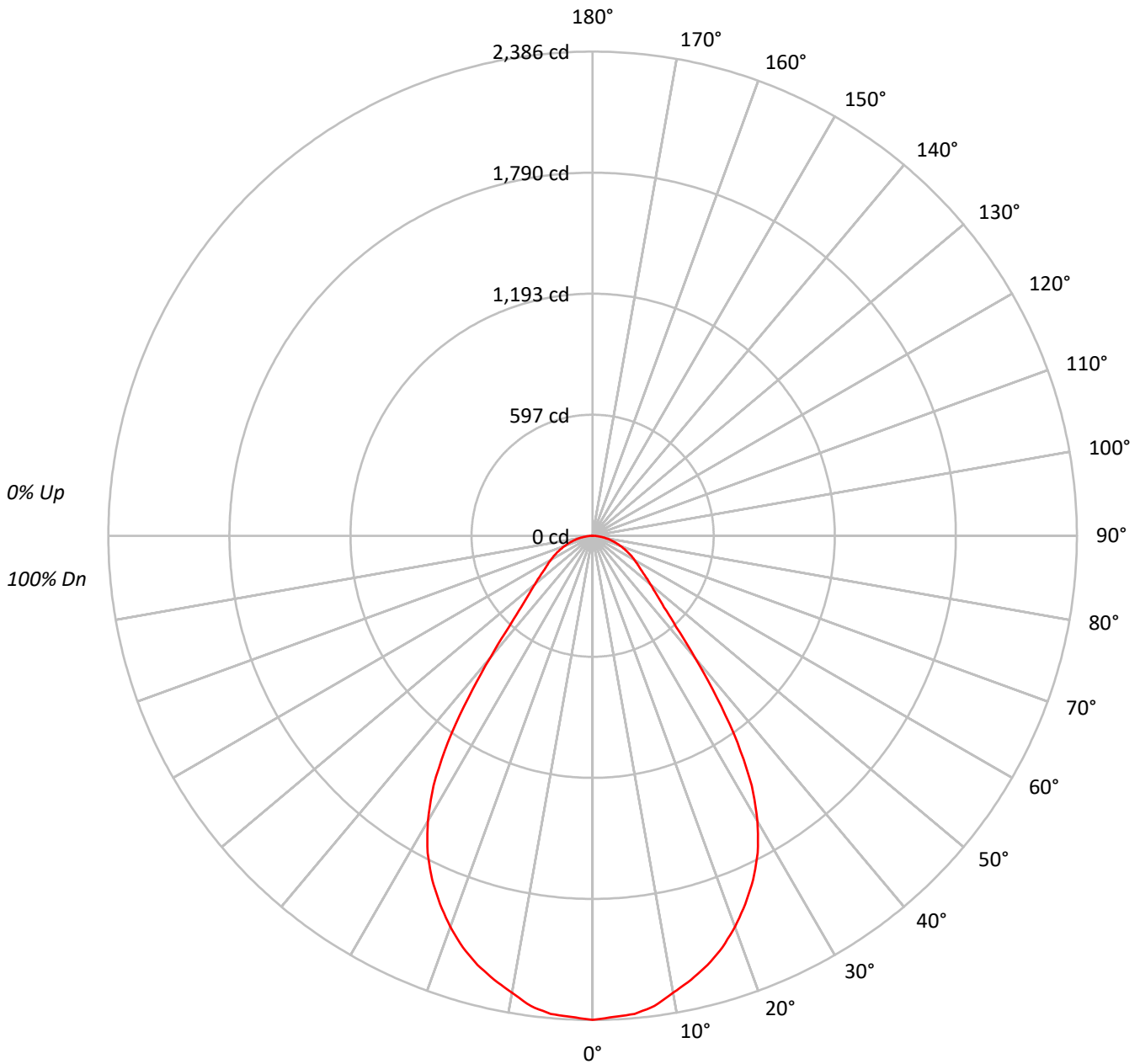
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	111	108	104	101	109	105	102	100	101	99	96	97	95	94	94	92	91	89			89
2	104	97	92	87	101	95	90	86	92	88	84	89	85	83	86	83	81	79			79
3	97	88	82	77	94	87	81	76	84	79	75	81	77	73	79	75	72	70			70
4	90	81	73	68	88	79	73	68	77	71	67	75	70	66	73	69	65	63			63
5	84	74	67	61	83	73	66	61	71	65	60	69	64	60	67	63	59	57			57
6	79	68	61	55	77	67	60	55	66	59	55	64	59	54	63	58	54	52			52
7	74	63	56	50	73	62	55	50	61	55	50	60	54	50	58	53	49	48			48
8	70	59	51	46	69	58	51	46	57	50	46	56	50	46	54	49	46	44			44
9	66	55	48	43	65	54	47	43	53	47	42	52	46	42	51	46	42	41			41
10	62	51	44	40	61	51	44	40	50	44	39	49	43	39	48	43	39	38			38

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

	0°
0°	130779
5°	130167
10°	127286
15°	124303
20°	119629
25°	113142
30°	102820
35°	83226
40°	56127
45°	38570
50°	31607
55°	27660
60°	26160
65°	24698
70°	23177
75°	22028
80°	20047
85°	17549



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	223.3	6.5
10°-20°	615.1	17.8
20°-30°	854.5	24.7
30°-40°	760.8	22.0
40°-50°	403.9	11.7
50°-60°	264.2	7.7
60°-70°	189.3	5.5
70°-80°	109.7	3.2
80°-90°	32.1	0.9
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°	1692.9	49.0
0°-40°	2453.8	71.1
0°-60°	3121.8	90.4
0°-90°	3453.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3453.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2386	
5°	2365	223
15°	2190	615
25°	1870	855
35°	1244	761
45°	498	404
55°	289	264
65°	190	189
75°	104	110
85°	28	32
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2385.6
2.5°	2373.0
5°	2365.4
7.5°	2337.4
10°	2286.6
12.5°	2241.0
15°	2190.2
17.5°	2126.8
20°	2050.6
22.5°	1964.4
25°	1870.5
27.5°	1761.4
30°	1624.3
32.5°	1459.3
35°	1243.6
37.5°	1005.0
40°	784.3
42.5°	609.1
45°	497.5
47.5°	423.8
50°	370.6
52.5°	327.4
55°	289.4
57.5°	261.5
60°	238.6
62.5°	215.7
65°	190.4
67.5°	167.5
70°	144.6
72.5°	124.3
75°	104.0
77.5°	83.8
80°	63.5
82.5°	45.6
85°	27.9
87.5°	12.7
90°	0.0



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— 0°-180°







(END OF REPORT)