

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: P582662

Luminaire Tested: **HC645D010-HM64560930-61WDWB**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P582662  
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-HM64560930-61WDWB  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, WHITE BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4767.8 lumens  
Efficiency: N/A  
Efficacy: 108.4 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

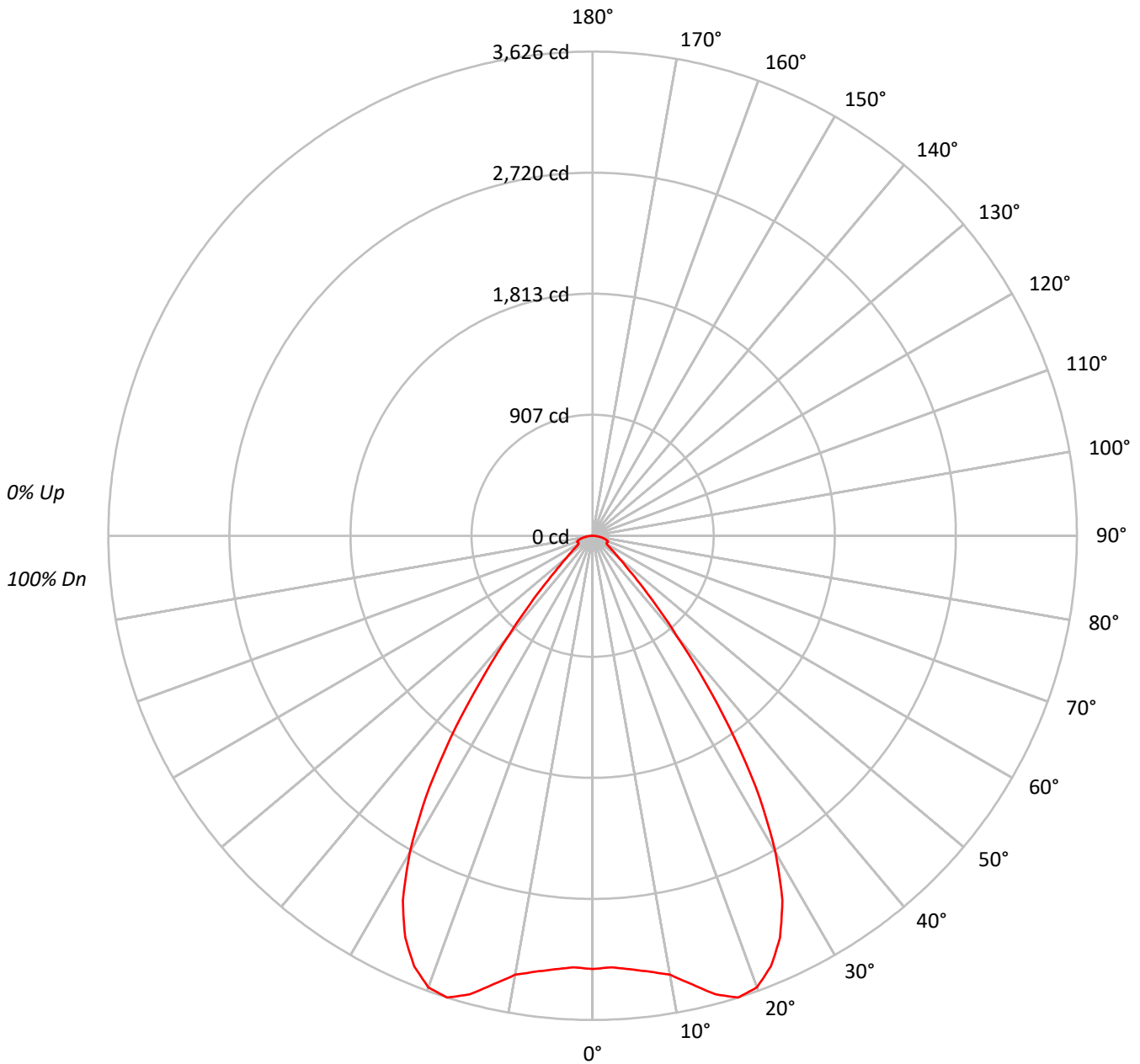
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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

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

	0°
0°	177820
5°	179336
10°	185802
15°	201812
20°	209925
25°	200794
30°	173280
35°	124771
40°	70296
45°	36430
50°	21722
55°	15655
60°	13299
65°	15332
70°	19442
75°	20545
80°	20110
85°	19058



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	313.6	6.6
10°-20°	1002.9	21.0
20°-30°	1499.1	31.4
30°-40°	1145.9	24.0
40°-50°	400.3	8.4
50°-60°	152.6	3.2
60°-70°	119.6	2.5
70°-80°	101.2	2.1
80°-90°	32.6	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°	2815.6	59.1
0°-40°	3961.6	83.1
0°-60°	4514.4	94.7
0°-90°	4767.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4767.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3244	
5°	3259	314
15°	3556	1003
25°	3320	1499
35°	1864	1146
45°	470	400
55°	164	153
65°	118	120
75°	97	101
85°	30	33
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	3243.7
2.5°	3234.7
5°	3258.9
7.5°	3292.3
10°	3337.8
12.5°	3440.8
15°	3555.9
17.5°	3625.7
20°	3598.4
22.5°	3489.3
25°	3319.6
27.5°	3077.0
30°	2737.4
32.5°	2331.2
35°	1864.4
37.5°	1382.4
40°	982.3
42.5°	688.2
45°	469.9
47.5°	330.4
50°	254.7
52.5°	200.1
55°	163.8
57.5°	133.4
60°	121.3
62.5°	118.2
65°	118.2
67.5°	124.3
70°	121.3
72.5°	112.1
75°	97.0
77.5°	81.9
80°	63.7
82.5°	45.5
85°	30.3
87.5°	12.1
90°	0.0



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— 0°-180°







(END OF REPORT)