

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: P593305

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

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P593305  
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-HM64560850-61WDWB  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, WHITE BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5639.7 lumens  
Efficiency: N/A  
Efficacy: 128.2 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

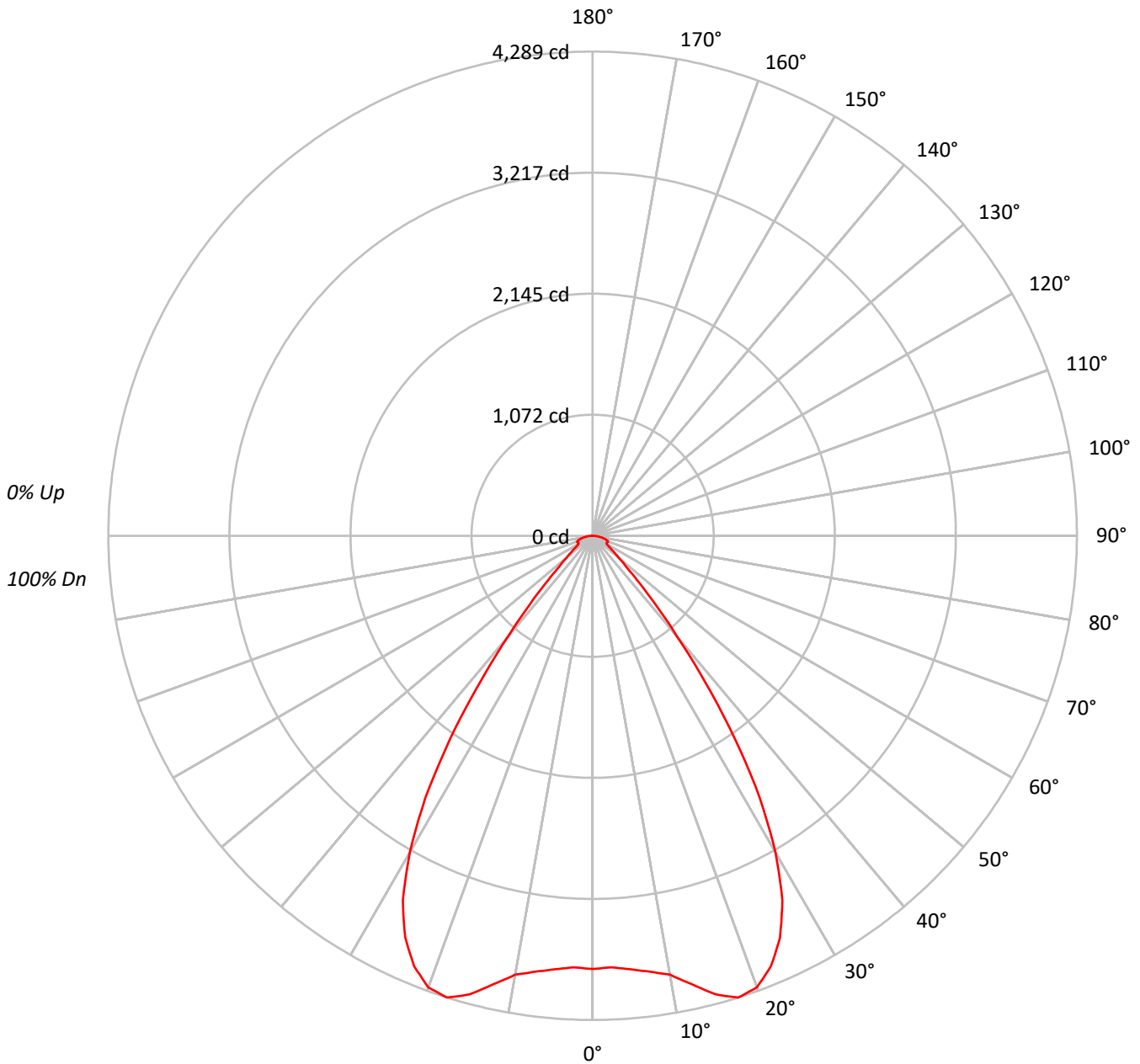
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	210345
5°	212134
10°	219780
15°	238730
20°	248323
25°	237510
30°	204975
35°	147592
40°	83149
45°	43090
50°	25688
55°	18513
60°	15733
65°	18134
70°	23001
75°	24294
80°	23772
85°	22581



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	370.9	6.6
10°-20°	1186.4	21.0
20°-30°	1773.2	31.4
30°-40°	1355.5	24.0
40°-50°	473.5	8.4
50°-60°	180.4	3.2
60°-70°	141.5	2.5
70°-80°	119.7	2.1
80°-90°	38.5	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°	3330.6	59.1
0°-40°	4686.1	83.1
0°-60°	5340.0	94.7
0°-90°	5639.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5639.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3837	
5°	3855	371
15°	4206	1186
25°	3927	1773
35°	2205	1356
45°	556	473
55°	194	180
65°	140	142
75°	115	120
85°	36	39
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3837.0
2.5°	3826.2
5°	3854.9
7.5°	3894.4
10°	3948.2
12.5°	4070.1
15°	4206.4
17.5°	4288.8
20°	4256.6
22.5°	4127.4
25°	3926.6
27.5°	3639.7
30°	3238.1
32.5°	2757.6
35°	2205.4
37.5°	1635.2
40°	1161.9
42.5°	814.1
45°	555.8
47.5°	390.8
50°	301.2
52.5°	236.7
55°	193.7
57.5°	157.8
60°	143.5
62.5°	139.8
65°	139.8
67.5°	147.0
70°	143.5
72.5°	132.7
75°	114.7
77.5°	96.8
80°	75.3
82.5°	53.8
85°	35.9
87.5°	14.3
90°	0.0



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— 0°-180°







(END OF REPORT)