

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: P584332

Luminaire Tested: **HC830D010-HM82555930-81WDW**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P584332  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-9)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 10/21/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC830D010-HM82555930-81WDW  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3276.7 lumens  
Efficiency: N/A  
Efficacy: 117.0 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.06  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

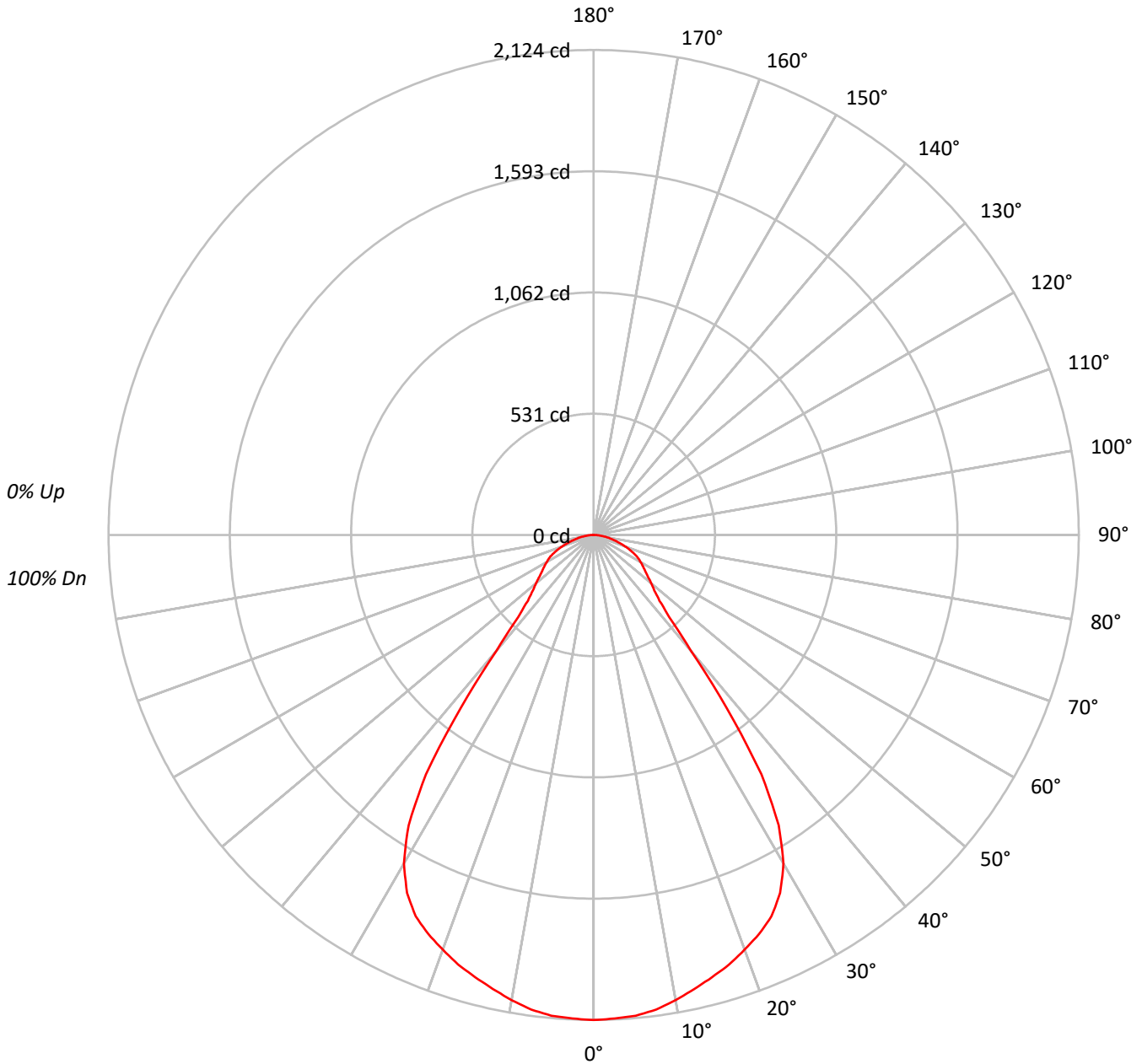
Input Watts (W): 28  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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			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	82	86	83	81	79			79
3	97	88	82	76	94	87	81	76	84	79	75	81	77	73	79	75	72	70			70
4	90	80	73	68	88	79	73	67	77	71	67	75	70	66	73	68	65	63			63
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	63	59	57			57
6	79	68	61	55	77	67	60	55	65	59	55	64	58	54	62	58	54	52			52
7	74	63	56	50	73	62	55	50	61	54	50	59	54	50	58	53	49	48			48
8	70	58	51	46	69	58	51	46	57	50	46	55	50	46	54	49	45	44			44
9	66	54	47	43	65	54	47	42	53	47	42	52	46	42	51	46	42	40			40
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	37			37

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

	0°
0°	65509
5°	65428
10°	64785
15°	64005
20°	63412
25°	62700
30°	59161
35°	48173
40°	26616
45°	17766
50°	15759
55°	14790
60°	14598
65°	14469
70°	13082
75°	11688
80°	10211
85°	9057



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	200.3	6.1
10°-20°	566.1	17.3
20°-30°	841.2	25.7
30°-40°	757.5	23.1
40°-50°	335.8	10.2
50°-60°	248.7	7.6
60°-70°	193.4	5.9
70°-80°	104.9	3.2
80°-90°	28.7	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°	1607.6	49.1
0°-40°	2365.1	72.2
0°-60°	2949.7	90.0
0°-90°	3276.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3276.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2124	
5°	2114	200
15°	2005	566
25°	1843	841
35°	1280	758
45°	407	336
55°	275	249
65°	198	193
75°	98	105
85°	26	29
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	2124.4
2.5°	2120.1
5°	2113.7
7.5°	2096.7
10°	2069.0
12.5°	2036.9
15°	2004.9
17.5°	1972.9
20°	1932.4
22.5°	1891.9
25°	1842.8
27.5°	1768.2
30°	1661.5
32.5°	1508.0
35°	1279.7
37.5°	955.6
40°	661.2
42.5°	488.4
45°	407.4
47.5°	360.5
50°	328.5
52.5°	298.6
55°	275.1
57.5°	256.0
60°	236.7
62.5°	219.7
65°	198.3
67.5°	172.8
70°	145.1
72.5°	121.6
75°	98.1
77.5°	76.8
80°	57.5
82.5°	40.5
85°	25.6
87.5°	10.7
90°	0.0



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— 0°-180°







(END OF REPORT)