

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: P584265

Luminaire Tested: **HC830D010-HM82555830-81WDWB**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P584265  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-10)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 10/21/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC830D010-HM82555830-81WDWB  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, WHITE BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3573.4 lumens  
Efficiency: N/A  
Efficacy: 127.6 lumens/watt  
Spacing Criteria (0/90/45): 1.32 / 1.32 / 1.14  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

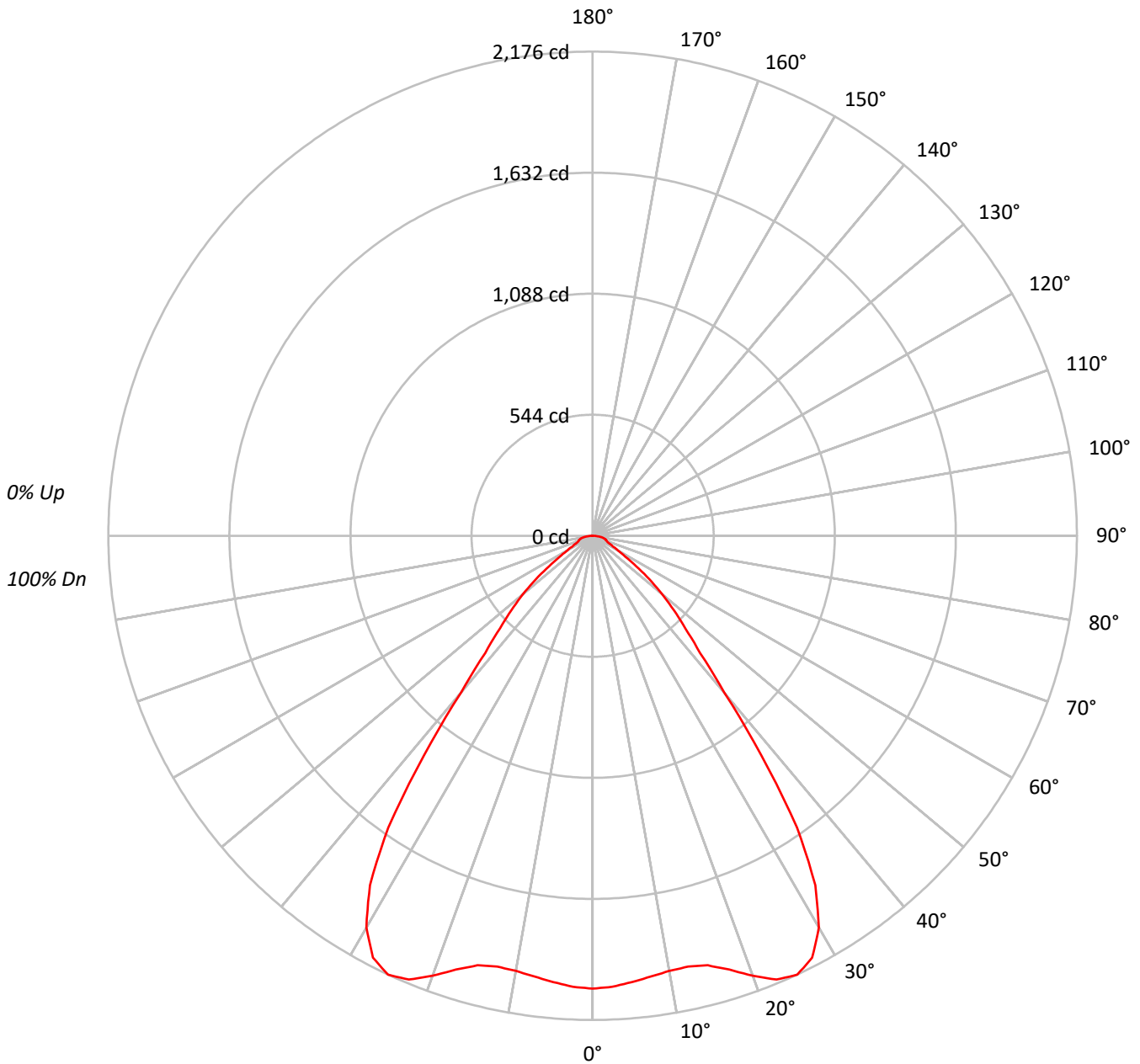
Input Watts (W): 28  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	108	105	103	109	106	103	101	102	100	98	98	97	95	95	93	92	90			
2	105	99	94	89	102	97	92	88	93	90	86	90	87	84	88	85	83	81			
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73			
4	92	82	75	70	90	81	75	70	79	73	69	77	72	68	75	71	67	65			
5	86	75	68	63	84	74	68	63	73	67	62	71	66	62	69	65	61	59			
6	80	69	62	57	79	69	62	57	67	61	56	65	60	56	64	59	56	54			
7	75	64	57	52	74	63	57	52	62	56	51	61	55	51	59	55	51	49			
8	71	59	52	47	69	59	52	47	58	51	47	56	51	47	55	50	47	45			
9	67	55	48	43	65	55	48	43	54	47	43	53	47	43	52	47	43	41			
10	63	51	45	40	62	51	44	40	50	44	40	49	44	40	48	43	40	38			

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

	0°
0°	62758
5°	62326
10°	62164
15°	63791
20°	69063
25°	74043
30°	72388
35°	60276
40°	37030
45°	25642
50°	19568
55°	12827
60°	8030
65°	6012
70°	6068
75°	6982
80°	7707
85°	6899



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	191.3	5.4
10°-20°	573.6	16.1
20°-30°	987.5	27.6
30°-40°	956.7	26.8
40°-50°	471.3	13.2
50°-60°	222.4	6.2
60°-70°	87.6	2.5
70°-80°	60.5	1.7
80°-90°	22.4	0.6
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°	1752.5	49.0
0°-40°	2709.2	75.8
0°-60°	3402.9	95.2
0°-90°	3573.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3573.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2035	
5°	2014	191
15°	1998	574
25°	2176	988
35°	1601	957
45°	588	471
55°	239	222
65°	82	88
75°	59	60
85°	20	22
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	2035.2
2.5°	2028.7
5°	2013.5
7.5°	1998.2
10°	1985.3
12.5°	1983.1
15°	1998.2
17.5°	2043.9
20°	2104.6
22.5°	2158.9
25°	2176.2
27.5°	2137.1
30°	2033.0
32.5°	1861.6
35°	1601.2
37.5°	1243.2
40°	919.9
42.5°	713.9
45°	588.0
47.5°	494.7
50°	407.9
52.5°	321.1
55°	238.6
57.5°	173.6
60°	130.2
62.5°	102.0
65°	82.4
67.5°	71.6
70°	67.3
72.5°	62.9
75°	58.6
77.5°	52.1
80°	43.4
82.5°	32.6
85°	19.5
87.5°	8.7
90°	0.0



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— 0°-180°







(END OF REPORT)