

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: P584333

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

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P584333  
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-HM82555930-81WDWB  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" 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: 3513.4 lumens  
Efficiency: N/A  
Efficacy: 125.5 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

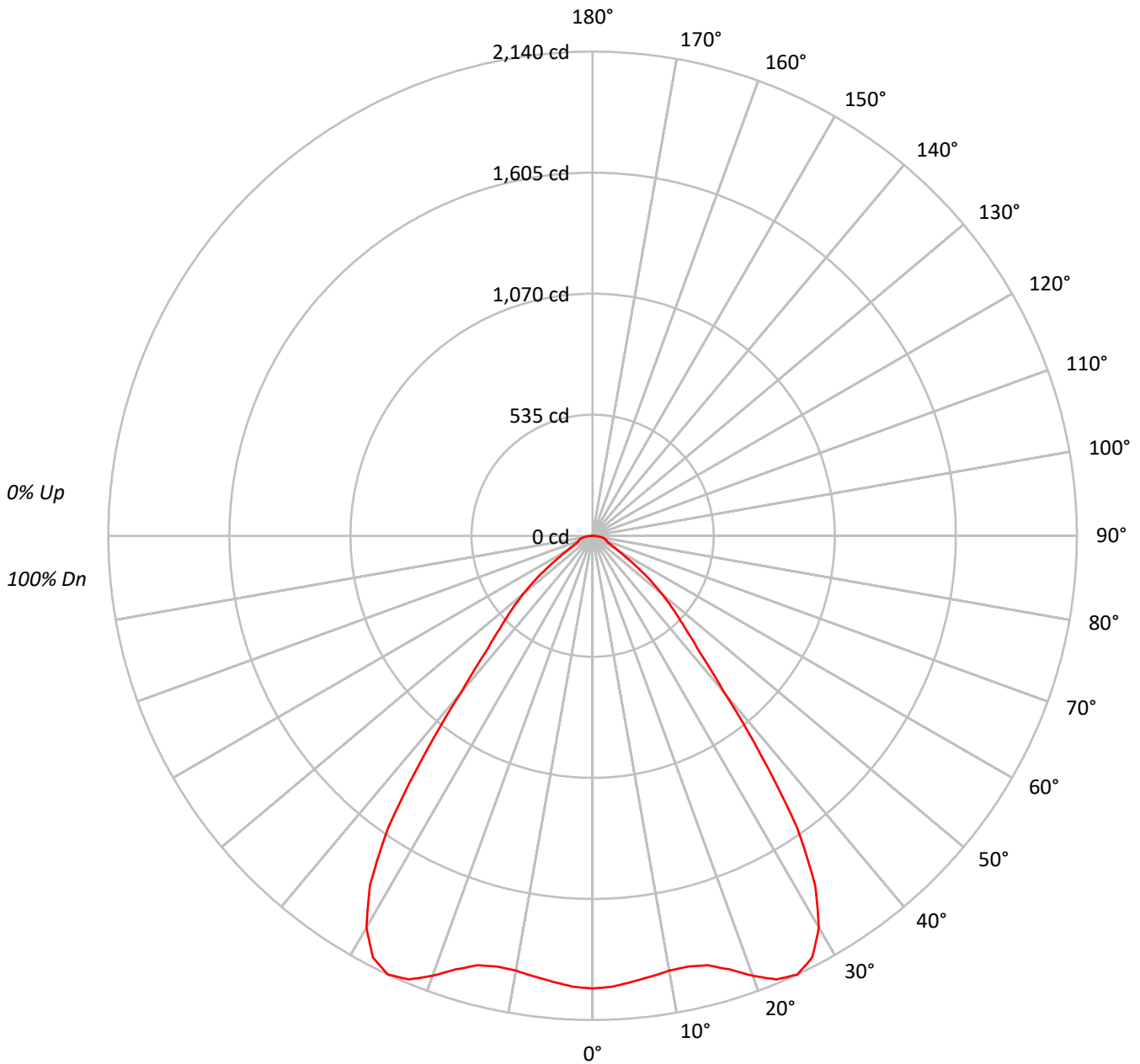
Input Watts (W): 28  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P584333

CATALOG NUMBER: HC830D010-HM82555930-81WDWB

### Luminous Intensity Polar Plot





TEST NUMBER: P584333

CATALOG NUMBER: HC830D010-HM82555930-81WDWB

**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	112	108	105	103	109	106	103	101	102	100	98	98	97	95	95	93	92	90			90
2	105	99	94	89	102	97	92	88	93	90	86	90	87	84	88	85	83	81			81
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73			73
4	92	82	75	70	90	81	75	70	79	73	69	77	72	68	75	71	67	65			65
5	86	75	68	63	84	74	68	63	73	67	62	71	66	62	69	65	61	59			59
6	80	69	62	57	79	69	62	57	67	61	56	65	60	56	64	59	56	54			54
7	75	64	57	52	74	63	57	52	62	56	51	61	55	51	59	55	51	49			49
8	71	59	52	47	69	59	52	47	58	51	47	56	51	47	55	50	47	45			45
9	67	55	48	43	65	55	48	43	54	47	43	53	47	43	52	47	43	41			41
10	63	51	45	40	62	51	44	40	50	44	40	49	44	40	48	43	40	38			38

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

	0°
0°	61707
5°	61280
10°	61121
15°	62724
20°	67905
25°	72801
30°	71174
35°	59267
40°	36410
45°	25210
50°	19237
55°	12618
60°	7900
65°	5917
70°	5960
75°	6851
80°	7583
85°	6758



TEST NUMBER: P584333

CATALOG NUMBER: HC830D010-HM82555930-81WDWB

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	188.1	5.4
10°-20°	564.0	16.1
20°-30°	971.0	27.6
30°-40°	940.7	26.8
40°-50°	463.3	13.2
50°-60°	218.6	6.2
60°-70°	86.2	2.5
70°-80°	59.4	1.7
80°-90°	22.0	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°	1723.1	49.0
0°-40°	2663.8	75.8
0°-60°	3345.8	95.2
0°-90°	3513.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3513.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2001	
5°	1980	188
15°	1965	564
25°	2140	971
35°	1574	941
45°	578	463
55°	235	219
65°	81	86
75°	58	59
85°	19	22
90°	0	



TEST NUMBER: P584333

CATALOG NUMBER: HC830D010-HM82555930-81WDWB

**CANDELA DISTRIBUTION (FULL):**

0°	
0°	2001.1
2.5°	1994.7
5°	1979.7
7.5°	1964.8
10°	1952.0
12.5°	1949.8
15°	1964.8
17.5°	2009.5
20°	2069.3
22.5°	2122.6
25°	2139.7
27.5°	2101.3
30°	1998.9
32.5°	1830.3
35°	1574.4
37.5°	1222.4
40°	904.5
42.5°	701.9
45°	578.1
47.5°	486.4
50°	401.0
52.5°	315.7
55°	234.7
57.5°	170.6
60°	128.1
62.5°	100.2
65°	81.1
67.5°	70.4
70°	66.1
72.5°	61.8
75°	57.5
77.5°	51.2
80°	42.7
82.5°	32.0
85°	19.1
87.5°	8.6
90°	0.0



Report Generated By 670245859 / DESKTOP-HRDQ47P







— 0°-180°







(END OF REPORT)