

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: P584860

Luminaire Tested: **HC850D010-HM82555927-81WDWB**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584860
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: HC850D010-HM82555927-81WDWB
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4606.5 lumens
Efficiency: N/A
Efficacy: 96.0 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

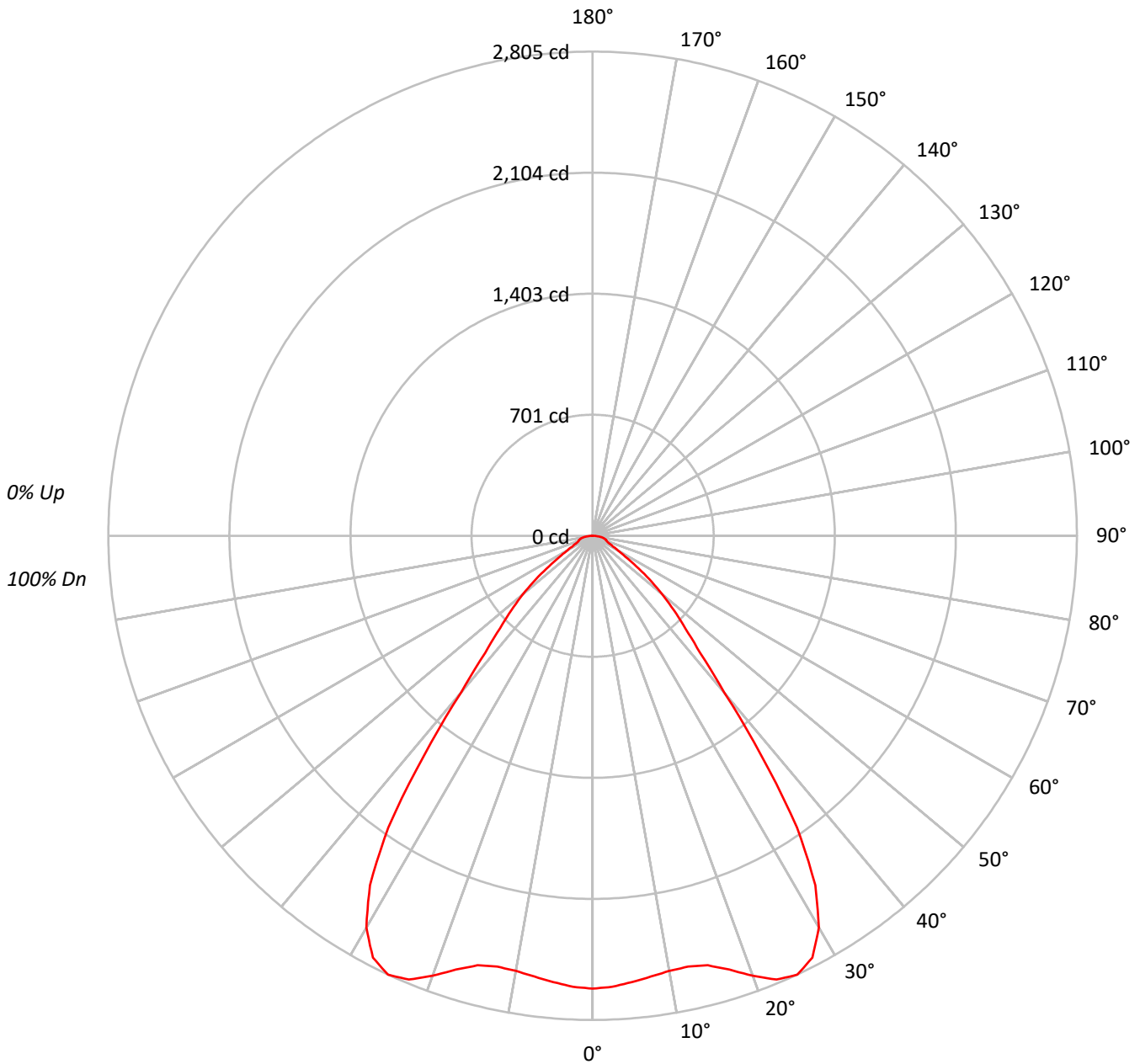
Input Watts (W): 48
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P584860

CATALOG NUMBER: HC850D010-HM82555927-81WDWB

Luminous Intensity Polar Plot





TEST NUMBER: P584860

CATALOG NUMBER: HC850D010-HM82555927-81WDWB

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			
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°	80899
5°	80341
10°	80134
15°	82236
20°	89028
25°	95451
30°	93318
35°	77701
40°	47741
45°	33056
50°	25224
55°	16542
60°	10355
65°	7756
70°	7817
75°	8995
80°	9944
85°	8881



TEST NUMBER: P584860

CATALOG NUMBER: HC850D010-HM82555927-81WDWB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	246.6	5.4
10°-20°	739.5	16.1
20°-30°	1273.0	27.6
30°-40°	1233.4	26.8
40°-50°	607.5	13.2
50°-60°	286.7	6.2
60°-70°	113.0	2.5
70°-80°	77.9	1.7
80°-90°	28.9	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°	2259.1	49.0
0°-40°	3492.5	75.8
0°-60°	4386.6	95.2
0°-90°	4606.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4606.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2624	
5°	2596	247
15°	2576	739
25°	2805	1273
35°	2064	1233
45°	758	608
55°	308	287
65°	106	113
75°	76	78
85°	25	29
90°	0	



TEST NUMBER: P584860

CATALOG NUMBER: HC850D010-HM82555927-81WDWB

CANDELA DISTRIBUTION (FULL):

	0°
0°	2623.5
2.5°	2615.2
5°	2595.5
7.5°	2576.0
10°	2559.2
12.5°	2556.4
15°	2576.0
17.5°	2634.7
20°	2713.0
22.5°	2782.9
25°	2805.4
27.5°	2755.0
30°	2620.8
32.5°	2399.7
35°	2064.1
37.5°	1602.7
40°	1186.0
42.5°	920.2
45°	758.0
47.5°	637.7
50°	525.8
52.5°	413.9
55°	307.7
57.5°	223.7
60°	167.9
62.5°	131.5
65°	106.3
67.5°	92.4
70°	86.7
72.5°	81.1
75°	75.5
77.5°	67.1
80°	56.0
82.5°	42.0
85°	25.1
87.5°	11.2
90°	0.0



Report Generated By 670245859 / DESKTOP-HRDQ47P





— 0°-180°







(END OF REPORT)