

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: P584815

Luminaire Tested: **HC850D010-HM82555835-81MDW**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P584815  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-6)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 10/21/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC850D010-HM82555835-81MDW  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" MEDIUM DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5317.7 lumens  
Efficiency: N/A  
Efficacy: 110.8 lumens/watt  
Spacing Criteria (0/90/45): 1 / 1 / 0.95  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

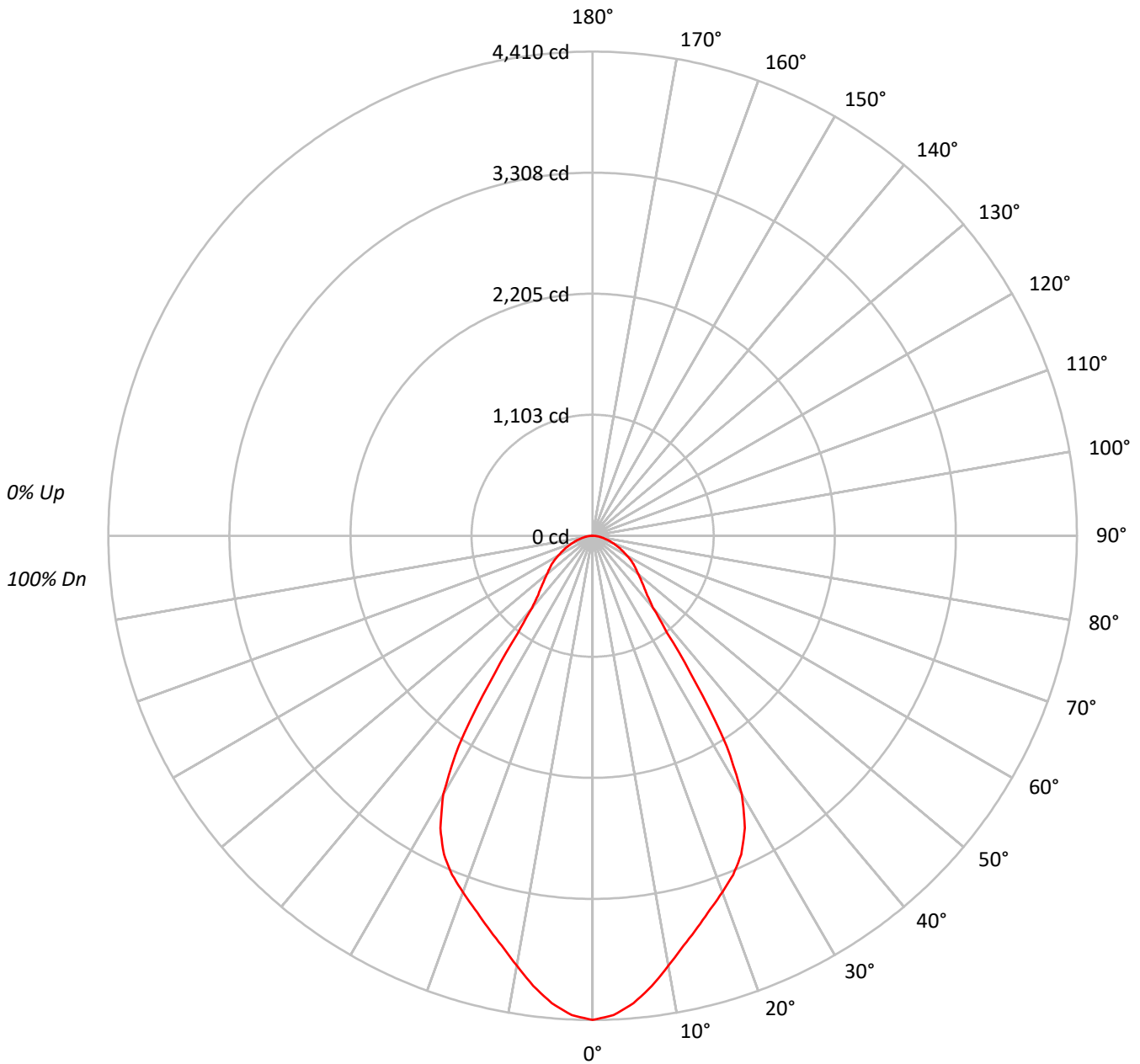
Input Watts (W): 48  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P584815

CATALOG NUMBER: HC850D010-HM82555835-81MDW

### Luminous Intensity Polar Plot





TEST NUMBER: P584815

CATALOG NUMBER: HC850D010-HM82555835-81MDW

**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	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90			
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	80			
3	98	89	83	78	95	88	82	78	85	80	76	83	78	75	80	77	74	72			
4	91	82	75	70	89	81	74	69	78	73	69	76	72	68	74	70	67	65			
5	86	76	68	63	84	75	68	63	73	67	62	71	66	62	69	65	61	59			
6	81	70	63	58	79	69	62	57	67	61	57	66	61	56	64	60	56	54			
7	76	65	58	53	74	64	57	53	63	57	52	62	56	52	60	55	52	50			
8	72	61	54	49	70	60	53	49	59	53	48	58	52	48	57	52	48	46			
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43			
10	64	53	46	42	63	53	46	42	52	46	42	51	46	42	50	45	42	40			

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

	0°
0°	135976
5°	132267
10°	124468
15°	117845
20°	113357
25°	108983
30°	96790
35°	61639
40°	34405
45°	28813
50°	26011
55°	24515
60°	22362
65°	20175
70°	17797
75°	15834
80°	14029
85°	12702



TEST NUMBER: P584815

CATALOG NUMBER: HC850D010-HM82555835-81MDW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	398.4	7.5
10°-20°	1041.1	19.6
20°-30°	1452.4	27.3
30°-40°	1045.0	19.7
40°-50°	517.9	9.7
50°-60°	405.2	7.6
60°-70°	274.3	5.2
70°-80°	142.5	2.7
80°-90°	41.0	0.8
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°	2891.8	54.4
0°-40°	3936.8	74.0
0°-60°	4859.9	91.4
0°-90°	5317.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5317.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4410	
5°	4273	398
15°	3691	1041
25°	3203	1452
35°	1637	1045
45°	661	518
55°	456	405
65°	276	274
75°	133	142
85°	36	41
90°	0	



TEST NUMBER: P584815

CATALOG NUMBER: HC850D010-HM82555835-81MDW

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	4409.6
2.5°	4370.1
5°	4273.0
7.5°	4136.6
10°	3975.1
12.5°	3824.3
15°	3691.4
17.5°	3565.7
20°	3454.4
22.5°	3343.1
25°	3203.1
27.5°	3002.0
30°	2718.3
32.5°	2273.0
35°	1637.4
37.5°	1116.7
40°	854.7
42.5°	736.1
45°	660.7
47.5°	596.1
50°	542.2
52.5°	495.5
55°	456.0
57.5°	409.4
60°	362.6
62.5°	316.0
65°	276.5
67.5°	237.0
70°	197.4
72.5°	165.2
75°	132.9
77.5°	104.2
80°	79.0
82.5°	57.4
85°	35.9
87.5°	18.0
90°	0.0



Report Generated By 670245859 / DESKTOP-HRDQ47P







— 0°-180°







(END OF REPORT)