

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: P584883

Luminaire Tested: **HC850D010-HM82555935-81MDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584883
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-HM82555935-81MDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" MEDIUM DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4959.1 lumens
Efficiency: N/A
Efficacy: 103.3 lumens/watt
Spacing Criteria (0/90/45): 1 / 1 / 0.95
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

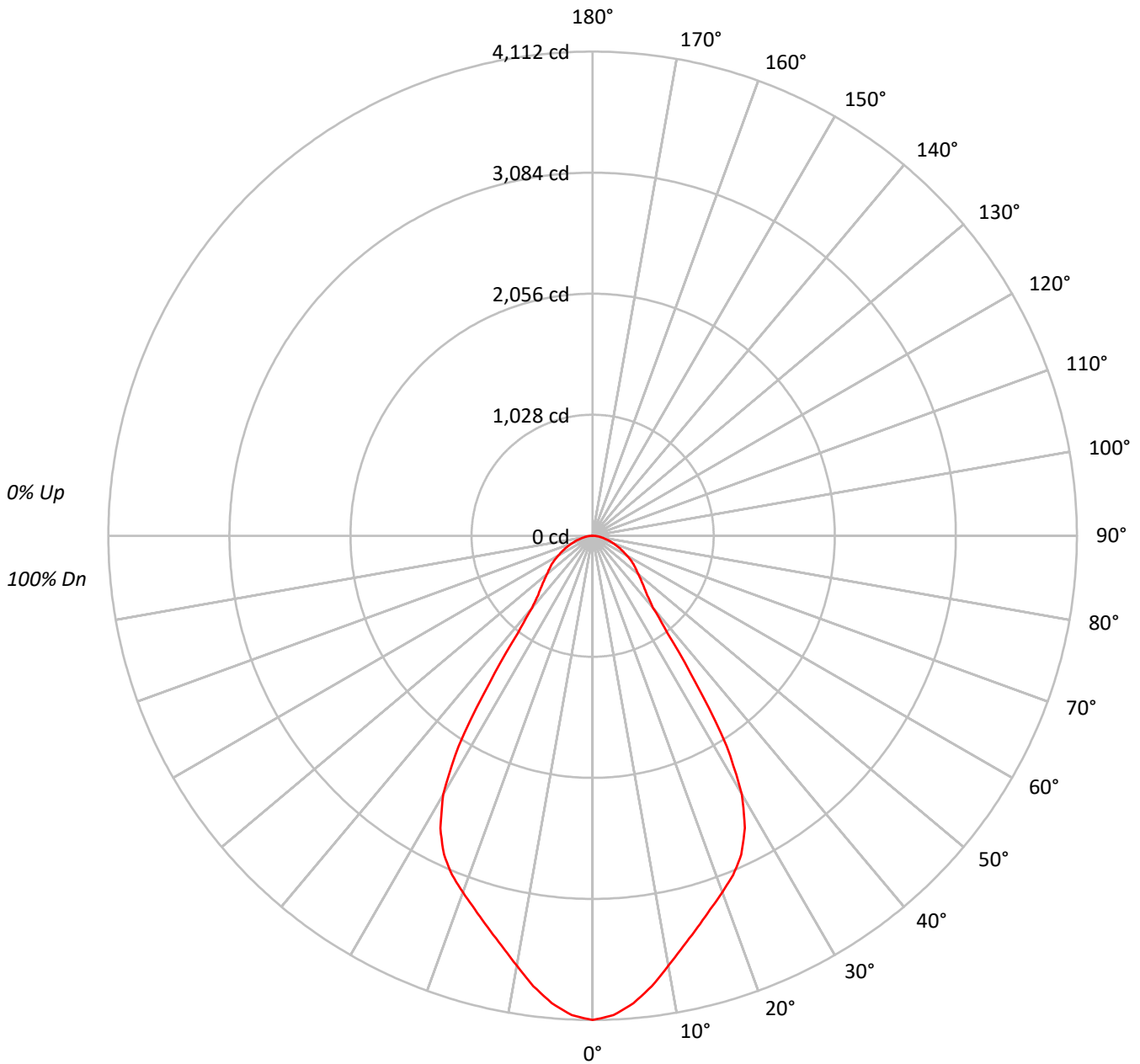
Input Watts (W): 48
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P584883

CATALOG NUMBER: HC850D010-HM82555935-81MDW

Luminous Intensity Polar Plot





TEST NUMBER: P584883

CATALOG NUMBER: HC850D010-HM82555935-81MDW

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			100
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90			90
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	80			80
3	98	89	83	78	95	88	82	78	85	80	76	83	78	75	80	77	74	72			72
4	91	82	75	70	89	81	74	69	78	73	69	76	72	68	74	70	67	65			65
5	86	76	68	63	84	75	68	63	73	67	62	71	66	62	69	65	61	59			59
6	81	70	63	58	79	69	62	57	67	61	57	66	61	56	64	60	56	54			54
7	76	65	58	53	74	64	57	53	63	57	52	62	56	52	60	55	52	50			50
8	72	61	54	49	70	60	53	49	59	53	48	58	52	48	57	52	48	46			46
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43			43
10	64	53	46	42	63	53	46	42	52	46	42	51	46	42	50	45	42	40			40

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	126805
5°	123349
10°	116074
15°	109899
20°	105711
25°	101630
30°	90263
35°	57479
40°	32082
45°	26872
50°	24255
55°	22865
60°	20858
65°	18818
70°	16598
75°	14762
80°	13070
85°	11817



TEST NUMBER: P584883

CATALOG NUMBER: HC850D010-HM82555935-81MDW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	371.5	7.5
10°-20°	970.8	19.6
20°-30°	1354.4	27.3
30°-40°	974.6	19.7
40°-50°	483.0	9.7
50°-60°	377.9	7.6
60°-70°	255.8	5.2
70°-80°	132.8	2.7
80°-90°	38.2	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°	2696.7	54.4
0°-40°	3671.3	74.0
0°-60°	4532.2	91.4
0°-90°	4959.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4959.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4112	
5°	3985	371
15°	3442	971
25°	2987	1354
35°	1527	975
45°	616	483
55°	425	378
65°	258	256
75°	124	133
85°	33	38
90°	0	



TEST NUMBER: P584883

CATALOG NUMBER: HC850D010-HM82555935-81MDW

CANDELA DISTRIBUTION (FULL):

	0°
0°	4112.2
2.5°	4075.4
5°	3984.9
7.5°	3857.7
10°	3707.0
12.5°	3566.3
15°	3442.5
17.5°	3325.2
20°	3221.4
22.5°	3117.6
25°	2987.0
27.5°	2799.5
30°	2535.0
32.5°	2119.7
35°	1526.9
37.5°	1041.5
40°	797.0
42.5°	686.4
45°	616.2
47.5°	555.9
50°	505.6
52.5°	462.1
55°	425.3
57.5°	381.8
60°	338.2
62.5°	294.7
65°	257.9
67.5°	221.1
70°	184.1
72.5°	154.1
75°	123.9
77.5°	97.1
80°	73.6
82.5°	53.5
85°	33.4
87.5°	16.7
90°	0.0



Report Generated By 670245859 / DESKTOP-HRDQ47P





— 0°-180°







(END OF REPORT)