

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: P584526

Luminaire Tested: **HC840D010-HM82555830-81MDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584526
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: HC840D010-HM82555830-81MDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" MEDIUM DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4474.0 lumens
Efficiency: N/A
Efficacy: 109.1 lumens/watt
Spacing Criteria (0/90/45): 1 / 1 / 0.95
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

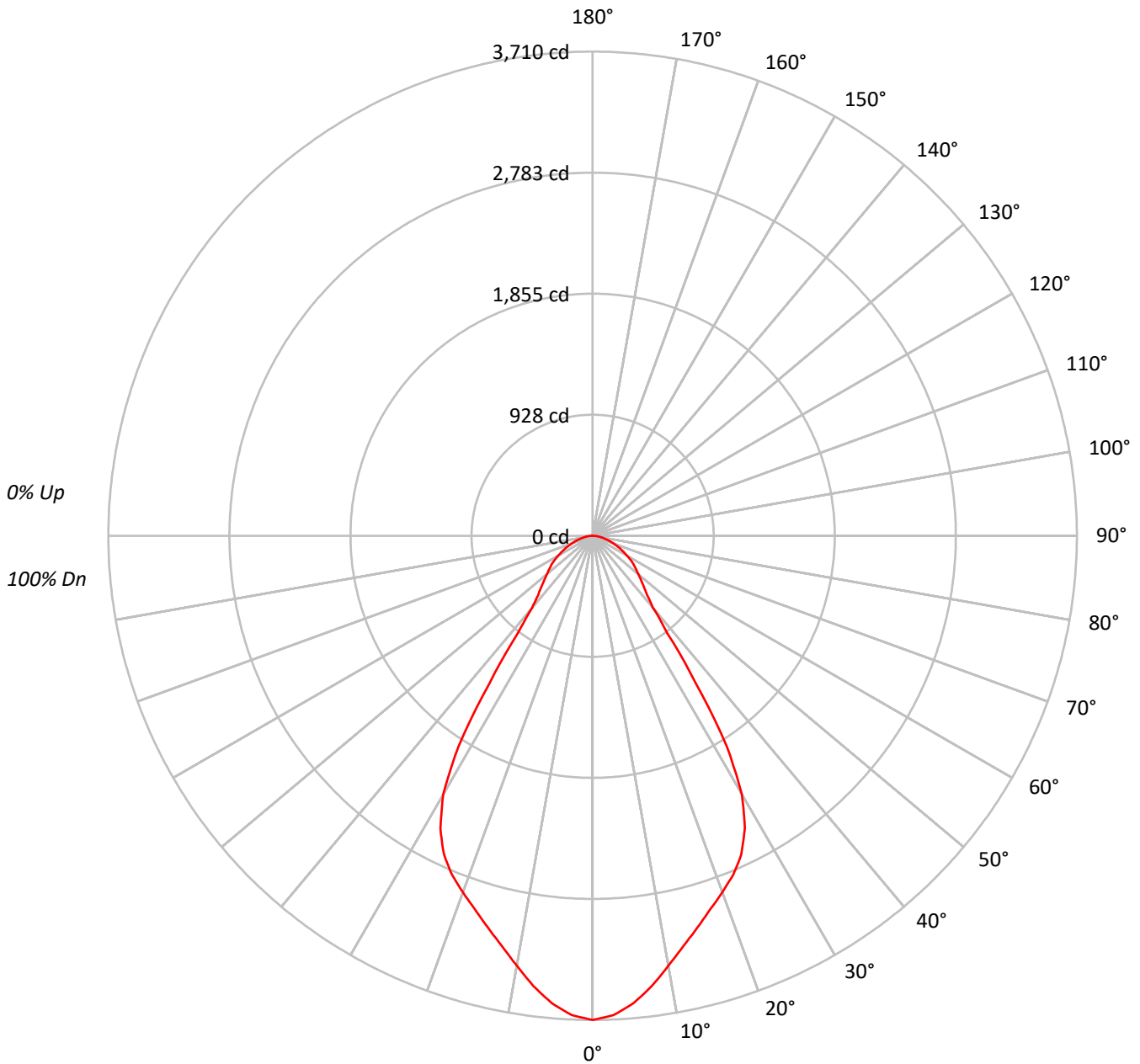
Input Watts (W): 41
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P584526

CATALOG NUMBER: HC840D010-HM82555830-81MDW

Luminous Intensity Polar Plot





TEST NUMBER: P584526

CATALOG NUMBER: HC840D010-HM82555830-81MDW

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°	114406
5°	111286
10°	104723
15°	99150
20°	95371
25°	91692
30°	81436
35°	51862
40°	28943
45°	24238
50°	21885
55°	20628
60°	18816
65°	16972
70°	14975
75°	13308
80°	11809
85°	10685



TEST NUMBER: P584526

CATALOG NUMBER: HC840D010-HM82555830-81MDW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	335.2	7.5
10°-20°	875.9	19.6
20°-30°	1221.9	27.3
30°-40°	879.3	19.7
40°-50°	435.7	9.7
50°-60°	340.9	7.6
60°-70°	230.8	5.2
70°-80°	119.8	2.7
80°-90°	34.5	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°	2433.0	54.4
0°-40°	3312.3	74.0
0°-60°	4088.9	91.4
0°-90°	4474.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4474.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3710	
5°	3595	335
15°	3106	876
25°	2695	1222
35°	1378	879
45°	556	436
55°	384	341
65°	233	231
75°	112	120
85°	30	35
90°	0	



TEST NUMBER: P584526

CATALOG NUMBER: HC840D010-HM82555830-81MDW

CANDELA DISTRIBUTION (FULL):

	0°
0°	3710.1
2.5°	3676.7
5°	3595.2
7.5°	3480.4
10°	3344.5
12.5°	3217.5
15°	3105.8
17.5°	3000.0
20°	2906.3
22.5°	2812.7
25°	2694.9
27.5°	2525.7
30°	2287.1
32.5°	1912.4
35°	1377.7
37.5°	939.6
40°	719.0
42.5°	619.4
45°	555.8
47.5°	501.5
50°	456.2
52.5°	417.0
55°	383.7
57.5°	344.4
60°	305.1
62.5°	265.8
65°	232.6
67.5°	199.4
70°	166.1
72.5°	139.0
75°	111.7
77.5°	87.6
80°	66.5
82.5°	48.3
85°	30.2
87.5°	15.1
90°	0.0



Report Generated By 670245859 / DESKTOP-HRDQ47P





— 0°-180°







(END OF REPORT)