

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: P584620

Luminaire Tested: **HC840D010-HM82555935-81WDH**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584620
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-8)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC840D010-HM82555935-81WDH
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4751.3 lumens
Efficiency: N/A
Efficacy: 115.9 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 1.12 / 1.06
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

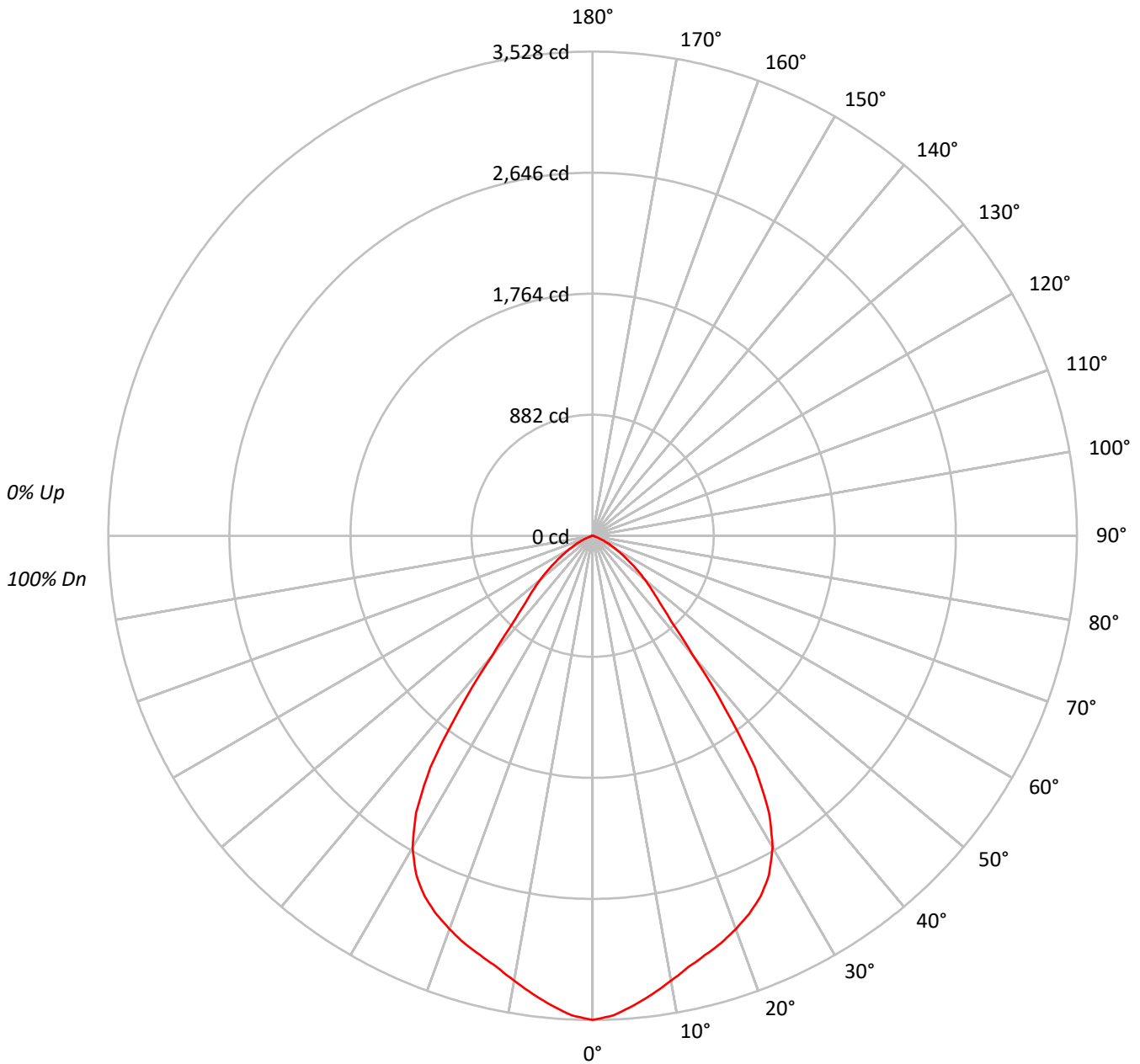
Input Watts (W): 41
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P584620

CATALOG NUMBER: HC840D010-HM82555935-81WDH

Luminous Intensity Polar Plot





TEST NUMBER: P584620

CATALOG NUMBER: HC840D010-HM82555935-81WDH

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	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	92			
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	85	83			
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	75			
4	93	84	78	73	91	83	77	72	81	76	72	79	74	71	77	73	70	68			
5	87	78	71	66	86	77	70	66	75	69	65	73	68	64	71	67	64	62			
6	82	72	65	60	80	71	64	60	69	64	59	68	63	59	66	62	58	57			
7	77	67	60	55	76	66	59	55	64	59	54	63	58	54	62	57	54	52			
8	73	62	55	50	71	61	55	50	60	54	50	59	54	50	58	53	49	48			
9	69	58	51	46	67	57	51	46	56	50	46	55	50	46	54	49	46	44			
10	65	54	47	43	64	53	47	43	53	47	43	52	46	43	51	46	42	41			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	108775
5°	106324
10°	103063
15°	100979
20°	100074
25°	98578
30°	93379
35°	77585
40°	45688
45°	30217
50°	23790
55°	17505
60°	12162
65°	7406
70°	3228
75°	1418
80°	1048
85°	0



TEST NUMBER: P584620

CATALOG NUMBER: HC840D010-HM82555935-81WDH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	323.5	6.8
10°-20°	894.2	18.8
20°-30°	1324.9	27.9
30°-40°	1224.3	25.8
40°-50°	564.5	11.9
50°-60°	296.9	6.2
60°-70°	104.9	2.2
70°-80°	16.4	0.3
80°-90°	1.6	0.0
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°	2542.6	53.5
0°-40°	3766.9	79.3
0°-60°	4628.3	97.4
0°-90°	4751.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4751.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3528	
5°	3435	323
15°	3163	894
25°	2897	1325
35°	2061	1224
45°	693	564
55°	326	297
65°	102	105
75°	12	16
85°	0	2
90°	0	



TEST NUMBER: P584620

CATALOG NUMBER: HC840D010-HM82555935-81WDH

CANDELA DISTRIBUTION (FULL):

	0°
0°	3527.5
2.5°	3497.6
5°	3434.9
7.5°	3366.2
10°	3291.5
12.5°	3219.9
15°	3163.1
17.5°	3112.3
20°	3049.6
22.5°	2981.0
25°	2897.3
27.5°	2783.8
30°	2622.5
32.5°	2392.5
35°	2061.0
37.5°	1583.1
40°	1135.0
42.5°	851.2
45°	692.9
47.5°	588.5
50°	495.9
52.5°	406.3
55°	325.6
57.5°	256.9
60°	197.2
62.5°	149.3
65°	101.5
67.5°	59.7
70°	35.8
72.5°	20.9
75°	11.9
77.5°	8.9
80°	5.9
82.5°	3.0
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By 670245859 / DESKTOP-HRDQ47P





— 0°-180°







(END OF REPORT)