

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: P593850

Luminaire Tested: **HC855D010-HM82555950-81WDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P593850
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-9)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC855D010-HM82555950-81WDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5950.9 lumens
Efficiency: N/A
Efficacy: 114.4 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.06
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

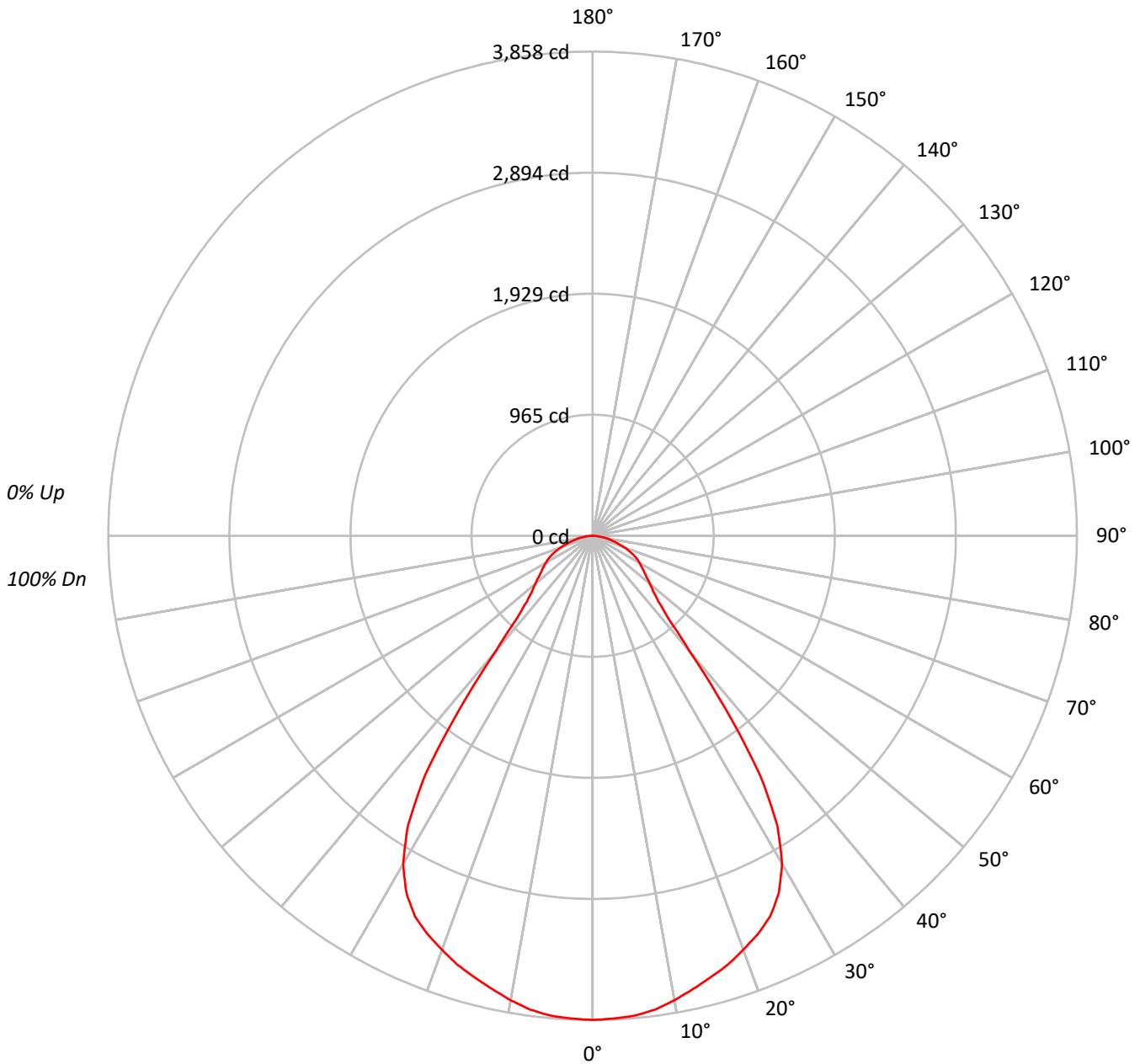
Input Watts (W): 52
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P593850

CATALOG NUMBER: HC855D010-HM82555950-81WDW

Luminous Intensity Polar Plot





TEST NUMBER: P593850

CATALOG NUMBER: HC855D010-HM82555950-81WDW

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	111	108	104	101	109	105	102	100	101	99	96	97	95	94	94	92	91	89			89
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79			79
3	97	88	82	76	94	87	81	76	84	79	75	81	77	73	79	75	72	70			70
4	90	80	73	68	88	79	73	67	77	71	67	75	70	66	73	68	65	63			63
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	63	59	57			57
6	79	68	61	55	77	67	60	55	65	59	55	64	58	54	62	58	54	52			52
7	74	63	56	50	73	62	55	50	61	54	50	59	54	50	58	53	49	48			48
8	70	58	51	46	69	58	51	46	57	50	46	55	50	46	54	49	45	44			44
9	66	54	47	43	65	54	47	42	53	47	42	52	46	42	51	46	42	40			40
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	37			37

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	118973
5°	118830
10°	117652
15°	116245
20°	115169
25°	113875
30°	107450
35°	87493
40°	48337
45°	32266
50°	28616
55°	26865
60°	26519
65°	26289
70°	23757
75°	21219
80°	18557
85°	16452



TEST NUMBER: P593850

CATALOG NUMBER: HC855D010-HM82555950-81WDW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	363.8	6.1
10°-20°	1028.1	17.3
20°-30°	1527.7	25.7
30°-40°	1375.8	23.1
40°-50°	609.9	10.2
50°-60°	451.7	7.6
60°-70°	351.2	5.9
70°-80°	190.4	3.2
80°-90°	52.1	0.9
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°	2919.7	49.1
0°-40°	4295.5	72.2
0°-60°	5357.1	90.0
0°-90°	5950.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5950.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3858	
5°	3839	364
15°	3641	1028
25°	3347	1528
35°	2324	1376
45°	740	610
55°	500	452
65°	360	351
75°	178	190
85°	46	52
90°	0	



TEST NUMBER: P593850

CATALOG NUMBER: HC855D010-HM82555950-81WDW

CANDELA DISTRIBUTION (FULL):

	0°
0°	3858.2
2.5°	3850.5
5°	3838.9
7.5°	3807.8
10°	3757.4
12.5°	3699.4
15°	3641.3
17.5°	3583.2
20°	3509.6
22.5°	3436.0
25°	3346.9
27.5°	3211.3
30°	3017.7
32.5°	2738.7
35°	2324.2
37.5°	1735.4
40°	1200.8
42.5°	887.1
45°	739.9
47.5°	654.7
50°	596.5
52.5°	542.3
55°	499.7
57.5°	464.8
60°	430.0
62.5°	398.9
65°	360.3
67.5°	313.7
70°	263.5
72.5°	220.8
75°	178.1
77.5°	139.5
80°	104.5
82.5°	73.6
85°	46.5
87.5°	19.3
90°	0.0



Report Generated By 670245859 / DESKTOP-HRDQ47P





— 0°-180°







(END OF REPORT)