

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: P593765

Luminaire Tested: **HC845D010-HM82555850-81WDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P593765
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: HC845D010-HM82555850-81WDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5670.9 lumens
Efficiency: N/A
Efficacy: 128.9 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

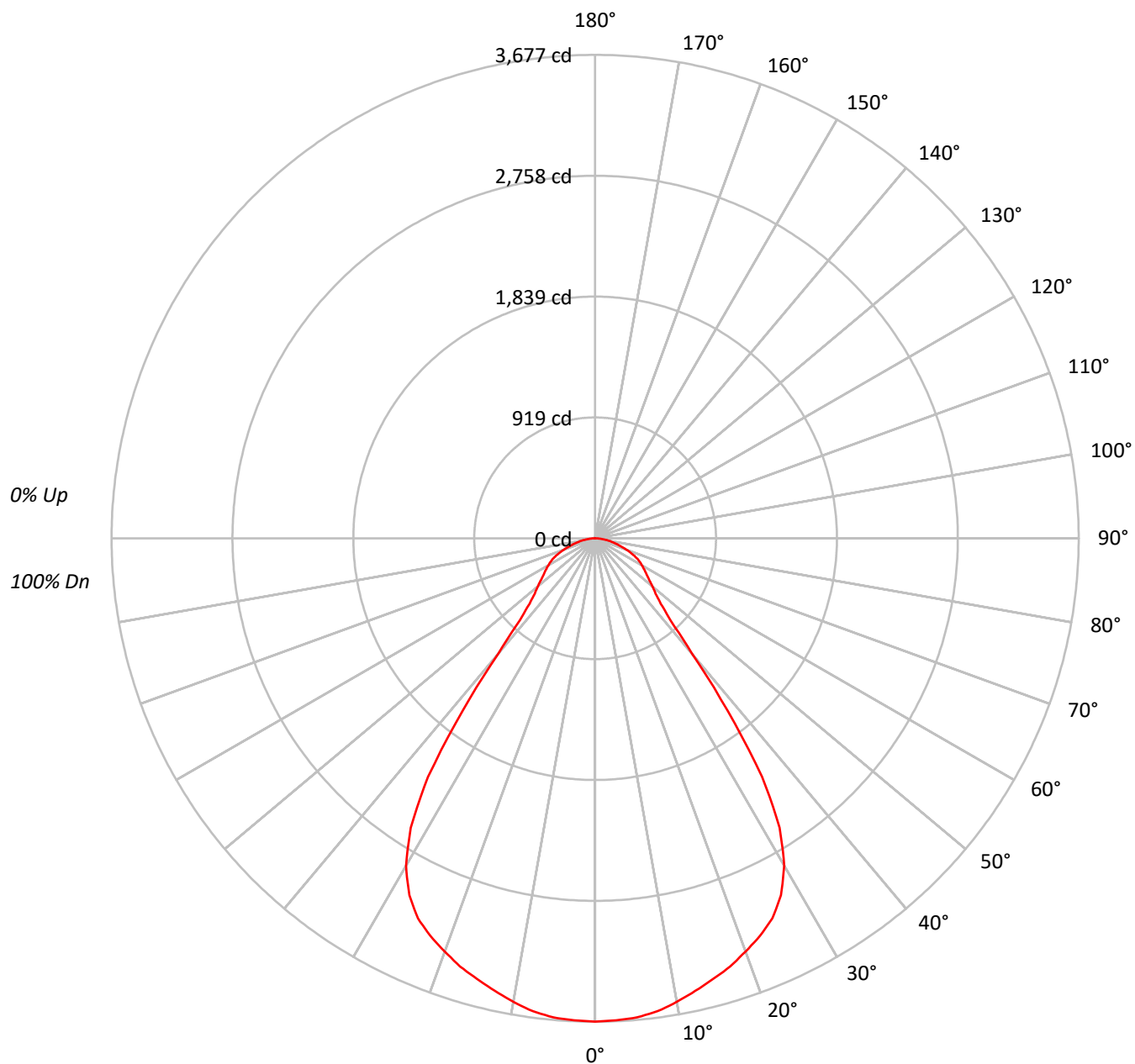
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P593765

CATALOG NUMBER: HC845D010-HM82555850-81WDW

Luminous Intensity Polar Plot





TEST NUMBER: P593765

CATALOG NUMBER: HC845D010-HM82555850-81WDW

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20
RC	80					70					50					30					10
RW	70	50	30	10		70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																					
0	119	119	119	119		116	116	116	116		111	111	111		106	106	106		102	102	102
1	111	108	104	101		109	105	102	100		101	99	96		97	95	94		94	92	91
2	104	97	92	87		101	95	90	86		92	88	84		89	85	82		86	83	81
3	97	88	82	76		94	87	81	76		84	79	75		81	77	73		79	75	72
4	90	80	73	68		88	79	73	67		77	71	67		75	70	66		73	68	65
5	84	74	66	61		82	73	66	61		71	65	60		69	64	59		67	63	59
6	79	68	61	55		77	67	60	55		65	59	55		64	58	54		62	58	54
7	74	63	56	50		73	62	55	50		61	54	50		59	54	50		58	53	49
8	70	58	51	46		69	58	51	46		57	50	46		55	50	46		54	49	45
9	66	54	47	43		65	54	47	42		53	47	42		52	46	42		51	46	42
10	62	51	44	39		61	50	44	39		49	43	39		49	43	39		48	43	39

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	113376
5°	113236
10°	112119
15°	110777
20°	109751
25°	108516
30°	102391
35°	83378
40°	46067
45°	30749
50°	27268
55°	25601
60°	25267
65°	25049
70°	22630
75°	20242
80°	17705
85°	15674



TEST NUMBER: P593765

CATALOG NUMBER: HC845D010-HM82555850-81WDW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	346.7	6.1
10°-20°	979.8	17.3
20°-30°	1455.8	25.7
30°-40°	1311.1	23.1
40°-50°	581.2	10.2
50°-60°	430.4	7.6
60°-70°	334.7	5.9
70°-80°	181.5	3.2
80°-90°	49.7	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°	2782.3	49.1
0°-40°	4093.4	72.2
0°-60°	5105.0	90.0
0°-90°	5670.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5670.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3677	
5°	3658	347
15°	3470	980
25°	3189	1456
35°	2215	1311
45°	705	581
55°	476	430
65°	343	335
75°	170	182
85°	44	50
90°	0	



TEST NUMBER: P593765

CATALOG NUMBER: HC845D010-HM82555850-81WDW

CANDELA DISTRIBUTION (FULL):

	0°
0°	3676.7
2.5°	3669.3
5°	3658.2
7.5°	3628.7
10°	3580.7
12.5°	3525.3
15°	3470.0
17.5°	3414.6
20°	3344.5
22.5°	3274.3
25°	3189.4
27.5°	3060.2
30°	2875.6
32.5°	2609.8
35°	2214.9
37.5°	1653.8
40°	1144.4
42.5°	845.4
45°	705.1
47.5°	623.8
50°	568.4
52.5°	516.8
55°	476.2
57.5°	442.9
60°	409.7
62.5°	380.2
65°	343.3
67.5°	299.0
70°	251.0
72.5°	210.4
75°	169.9
77.5°	132.9
80°	99.7
82.5°	70.1
85°	44.3
87.5°	18.4
90°	0.0



Report Generated By 670245859 / DESKTOP-HRDQ47P





— 0°-180°







(END OF REPORT)