

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: P584721

Luminaire Tested: **HC845D010-HM82555927-81WDC**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584721
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-7)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC845D010-HM82555927-81WDC
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4460.9 lumens
Efficiency: N/A
Efficacy: 101.4 lumens/watt
Spacing Criteria (0/90/45): 1.1 / 1.1 / 1.05
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

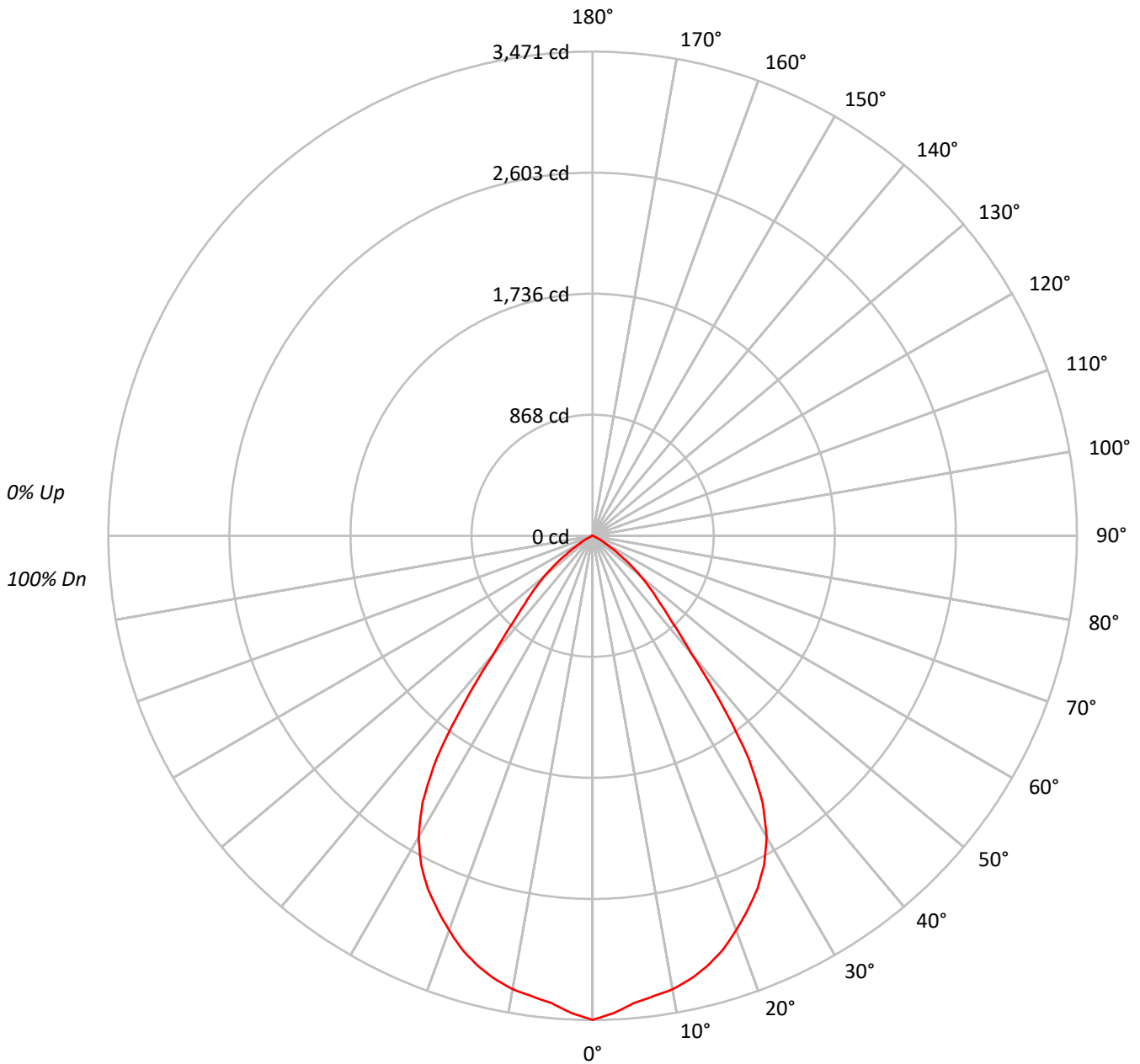
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P584721

CATALOG NUMBER: HC845D010-HM82555927-81WDC

Luminous Intensity Polar Plot





TEST NUMBER: P584721

CATALOG NUMBER: HC845D010-HM82555927-81WDC

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	100	100
1	113	110	107	105	110	108	105	103	104	102	100	100	98	97	96	95	94	92	92	92	92
2	106	101	96	93	104	99	95	92	96	92	90	93	90	88	90	88	86	84	84	84	84
3	100	93	87	83	98	91	86	82	89	84	81	86	83	79	84	81	78	77	77	77	77
4	94	86	79	75	92	84	79	74	82	77	73	80	76	72	78	75	71	70	70	70	70
5	88	79	72	68	87	78	72	67	76	71	67	74	70	66	73	69	65	64	64	64	64
6	83	73	66	62	82	72	66	61	71	65	61	69	64	61	68	64	60	59	59	59	59
7	78	68	61	57	77	67	61	56	66	60	56	65	60	56	63	59	55	54	54	54	54
8	74	63	57	52	73	63	56	52	62	56	52	60	55	51	59	55	51	50	50	50	50
9	70	59	53	48	69	59	52	48	58	52	48	57	51	48	56	51	47	46	46	46	46
10	66	55	49	45	65	55	49	45	54	48	44	53	48	44	52	48	44	43	43	43	43

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	107027
5°	104145
10°	103355
15°	101816
20°	98731
25°	95050
30°	88789
35°	73478
40°	44360
45°	29877
50°	21530
55°	12279
60°	5403
65°	1934
70°	721
75°	322
80°	0
85°	0



TEST NUMBER: P584721

CATALOG NUMBER: HC845D010-HM82555927-81WDC

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	319.6	7.2
10°-20°	896.3	20.1
20°-30°	1278.6	28.7
30°-40°	1164.3	26.1
40°-50°	549.2	12.3
50°-60°	216.0	4.8
60°-70°	34.4	0.8
70°-80°	2.5	0.1
80°-90°	0.0	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°	2494.5	55.9
0°-40°	3658.9	82.0
0°-60°	4424.1	99.2
0°-90°	4460.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4460.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3471	
5°	3364	320
15°	3189	896
25°	2794	1279
35°	1952	1164
45°	685	549
55°	228	216
65°	26	34
75°	3	2
85°	0	0
90°	0	



TEST NUMBER: P584721

CATALOG NUMBER: HC845D010-HM82555927-81WDC

CANDELA DISTRIBUTION (FULL):

	0°
0°	3470.8
2.5°	3425.6
5°	3364.5
7.5°	3330.0
10°	3300.8
12.5°	3253.1
15°	3189.3
17.5°	3109.6
20°	3008.7
22.5°	2902.5
25°	2793.6
27.5°	2660.8
30°	2493.6
32.5°	2267.9
35°	1951.9
37.5°	1508.4
40°	1102.0
42.5°	847.1
45°	685.1
47.5°	562.9
50°	448.8
52.5°	337.2
55°	228.4
57.5°	143.5
60°	87.6
62.5°	53.1
65°	26.5
67.5°	13.3
70°	8.0
72.5°	2.7
75°	2.7
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By 670245859 / DESKTOP-HRDQ47P





— 0°-180°







(END OF REPORT)