

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: P584690

Luminaire Tested: **HC845D010-HM82555835-81WDWB**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584690
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-10)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC845D010-HM82555835-81WDWB
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5614.5 lumens
Efficiency: N/A
Efficacy: 127.6 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 1.32 / 1.14
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

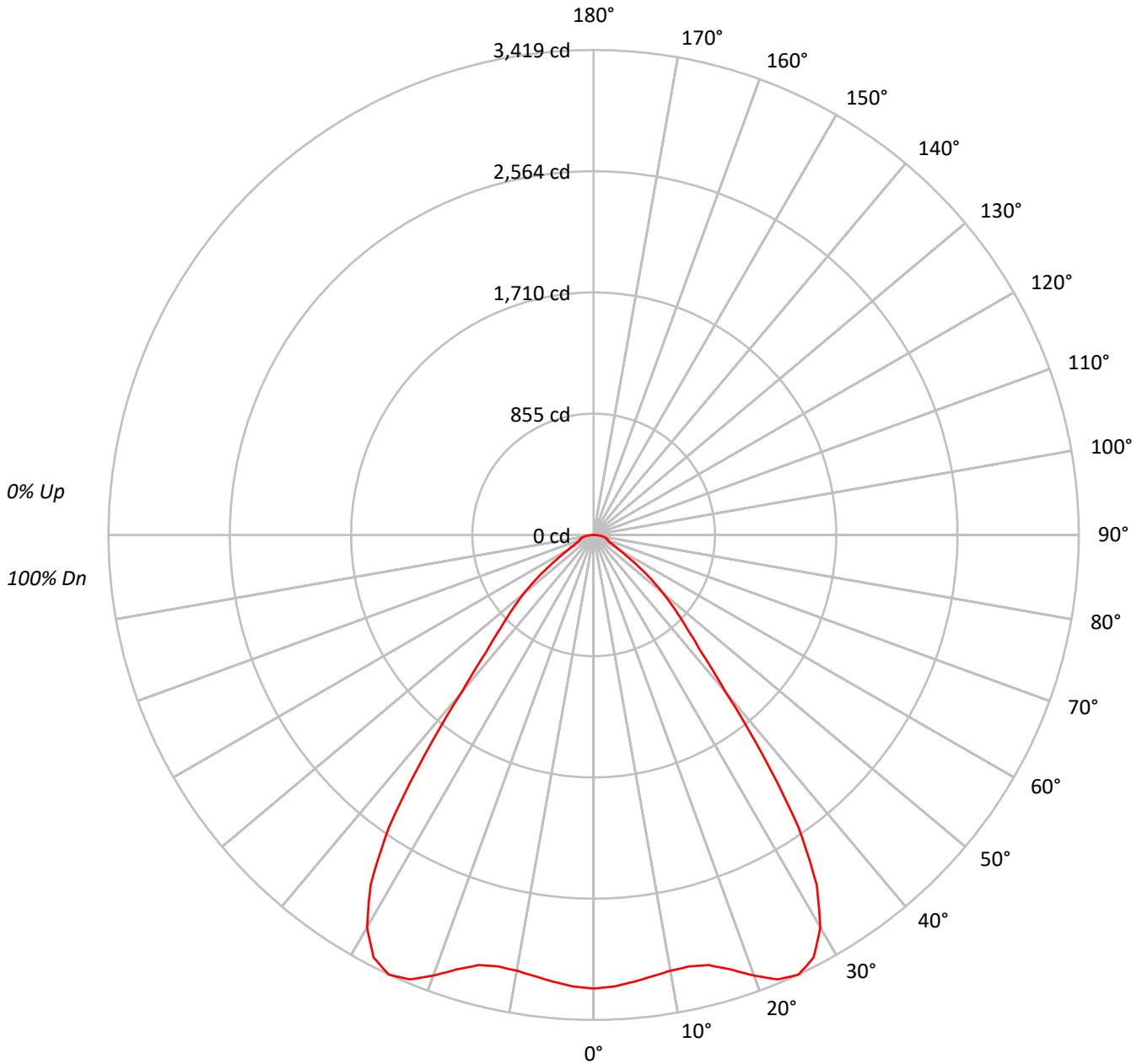
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P584690

CATALOG NUMBER: HC845D010-HM82555835-81WDWB

Luminous Intensity Polar Plot





TEST NUMBER: P584690

CATALOG NUMBER: HC845D010-HM82555835-81WDWB

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	112	108	105	103	109	106	103	101	102	100	98	98	97	95	95	93	92	90			90
2	105	99	94	89	102	97	92	88	93	90	86	90	87	84	88	85	83	81			81
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73			73
4	92	82	75	70	90	81	75	70	79	73	69	77	72	68	75	71	67	65			65
5	86	75	68	63	84	74	68	63	73	67	62	71	66	62	69	65	61	59			59
6	80	69	62	57	79	69	62	57	67	61	56	65	60	56	64	59	56	54			54
7	75	64	57	52	74	63	57	52	62	56	51	61	55	51	59	55	51	49			49
8	71	59	52	47	69	59	52	47	58	51	47	56	51	47	55	50	47	45			45
9	67	55	48	43	65	55	48	43	54	47	43	53	47	43	52	47	43	41			41
10	63	51	45	40	62	51	44	40	50	44	40	49	44	40	48	43	40	38			38

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	98602
5°	97926
10°	97668
15°	100232
20°	108510
25°	116335
30°	113735
35°	94709
40°	58183
45°	40290
50°	30746
55°	20161
60°	12618
65°	9449
70°	9530
75°	10973
80°	12111
85°	10862



TEST NUMBER: P584690

CATALOG NUMBER: HC845D010-HM82555835-81WDWB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	300.6	5.4
10°-20°	901.3	16.1
20°-30°	1551.6	27.6
30°-40°	1503.3	26.8
40°-50°	740.4	13.2
50°-60°	349.4	6.2
60°-70°	137.7	2.5
70°-80°	95.0	1.7
80°-90°	35.2	0.6
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°	2753.5	49.0
0°-40°	4256.7	75.8
0°-60°	5346.5	95.2
0°-90°	5614.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5614.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3198	
5°	3164	301
15°	3140	901
25°	3419	1552
35°	2516	1503
45°	924	740
55°	375	349
65°	130	138
75°	92	95
85°	31	35
90°	0	



TEST NUMBER: P584690

CATALOG NUMBER: HC845D010-HM82555835-81WDWB

CANDELA DISTRIBUTION (FULL):

0°	
0°	3197.6
2.5°	3187.4
5°	3163.6
7.5°	3139.7
10°	3119.2
12.5°	3115.8
15°	3139.7
17.5°	3211.2
20°	3306.7
22.5°	3392.0
25°	3419.2
27.5°	3357.8
30°	3194.2
32.5°	2924.9
35°	2515.9
37.5°	1953.4
40°	1445.4
42.5°	1121.5
45°	923.9
47.5°	777.2
50°	640.9
52.5°	504.5
55°	375.0
57.5°	272.7
60°	204.6
62.5°	160.2
65°	129.5
67.5°	112.5
70°	105.7
72.5°	98.9
75°	92.1
77.5°	81.8
80°	68.2
82.5°	51.1
85°	30.7
87.5°	13.6
90°	0.0



Report Generated By 670245859 / DESKTOP-HRDQ47P





— 0°-180°







(END OF REPORT)