

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: P584758

Luminaire Tested: **HC845D010-HM82555935-81WDWB**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584758
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-HM82555935-81WDWB
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5235.7 lumens
Efficiency: N/A
Efficacy: 119.0 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

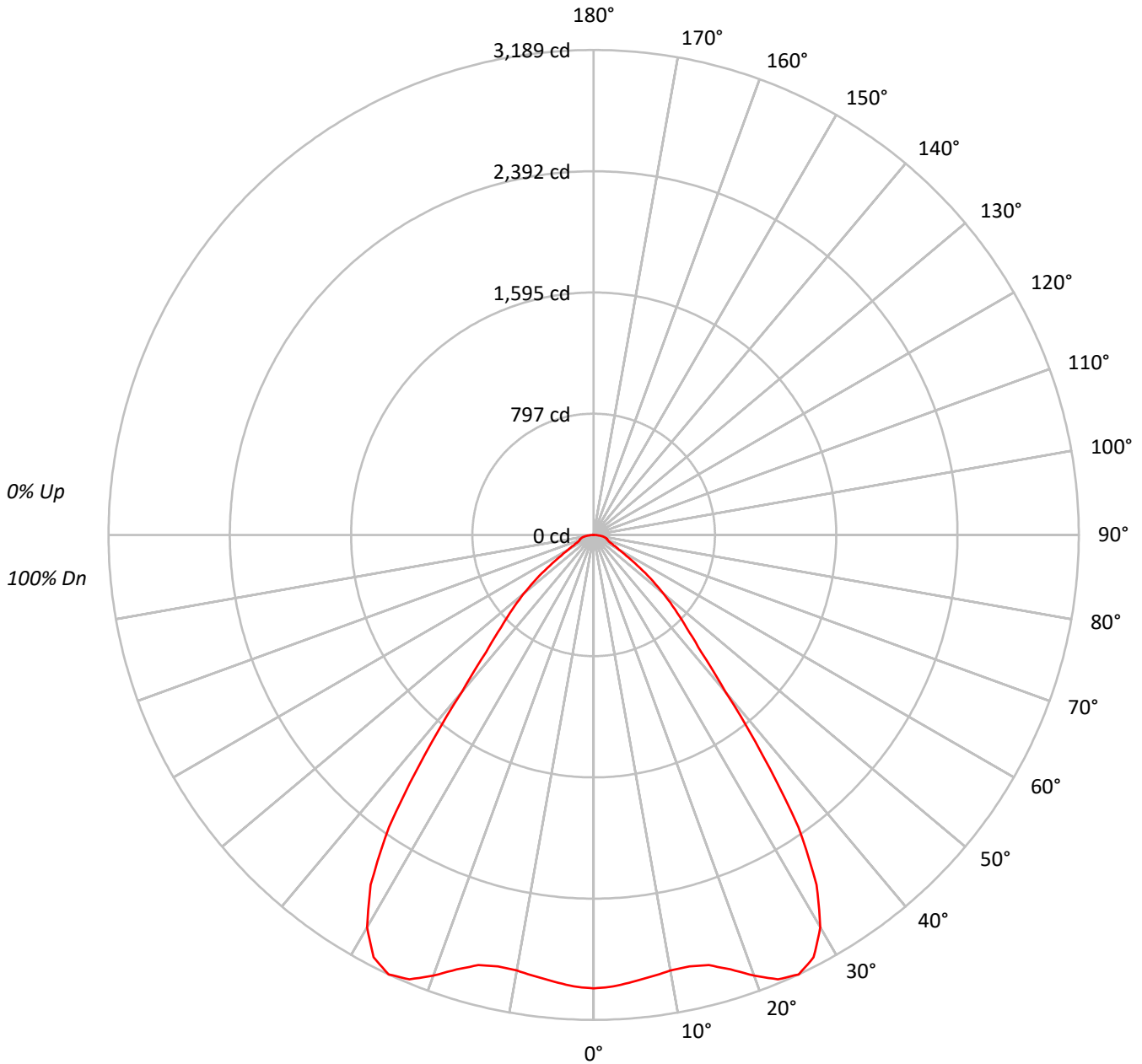
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P584758

CATALOG NUMBER: HC845D010-HM82555935-81WDWB

Luminous Intensity Polar Plot





TEST NUMBER: P584758

CATALOG NUMBER: HC845D010-HM82555935-81WDWB

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			
1	112	108	105	103	109	106	103	101	102	100	98	98	97	95	95	93	92	90			
2	105	99	94	89	102	97	92	88	93	90	86	90	87	84	88	85	83	81			
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73			
4	92	82	75	70	90	81	75	70	79	73	69	77	72	68	75	71	67	65			
5	86	75	68	63	84	74	68	63	73	67	62	71	66	62	69	65	61	59			
6	80	69	62	57	79	69	62	57	67	61	56	65	60	56	64	59	56	54			
7	75	64	57	52	74	63	57	52	62	56	51	61	55	51	59	55	51	49			
8	71	59	52	47	69	59	52	47	58	51	47	56	51	47	55	50	47	45			
9	67	55	48	43	65	55	48	43	54	47	43	53	47	43	52	47	43	41			
10	63	51	45	40	62	51	44	40	50	44	40	49	44	40	48	43	40	38			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	91954
5°	91321
10°	91080
15°	93471
20°	101193
25°	108489
30°	106065
35°	88317
40°	54258
45°	37574
50°	28669
55°	18800
60°	11761
65°	8814
70°	8881
75°	10234
80°	11294
85°	10119



TEST NUMBER: P584758

CATALOG NUMBER: HC845D010-HM82555935-81WDWB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	280.3	5.4
10°-20°	840.5	16.1
20°-30°	1446.9	27.6
30°-40°	1401.9	26.8
40°-50°	690.5	13.2
50°-60°	325.8	6.2
60°-70°	128.4	2.5
70°-80°	88.6	1.7
80°-90°	32.9	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°	2567.8	49.0
0°-40°	3969.6	75.8
0°-60°	4985.9	95.2
0°-90°	5235.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5235.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2982	
5°	2950	280
15°	2928	840
25°	3189	1447
35°	2346	1402
45°	862	691
55°	350	326
65°	121	128
75°	86	89
85°	29	33
90°	0	



TEST NUMBER: P584758

CATALOG NUMBER: HC845D010-HM82555935-81WDWB

CANDELA DISTRIBUTION (FULL):

	0°
0°	2982.0
2.5°	2972.4
5°	2950.2
7.5°	2927.9
10°	2908.8
12.5°	2905.6
15°	2927.9
17.5°	2994.7
20°	3083.7
22.5°	3163.2
25°	3188.6
27.5°	3131.4
30°	2978.8
32.5°	2727.7
35°	2346.1
37.5°	1821.6
40°	1347.9
42.5°	1046.0
45°	861.6
47.5°	724.8
50°	597.6
52.5°	470.5
55°	349.7
57.5°	254.3
60°	190.7
62.5°	149.4
65°	120.8
67.5°	104.9
70°	98.5
72.5°	92.2
75°	85.9
77.5°	76.2
80°	63.6
82.5°	47.7
85°	28.6
87.5°	12.7
90°	0.0



Report Generated By 670245859 / DESKTOP-HRDQ47P





— 0°-180°







(END OF REPORT)