

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: P584486

Luminaire Tested: **HC835D010-HM82555935-81WDWB**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584486
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: HC835D010-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: 4245.2 lumens
Efficiency: N/A
Efficacy: 126.0 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

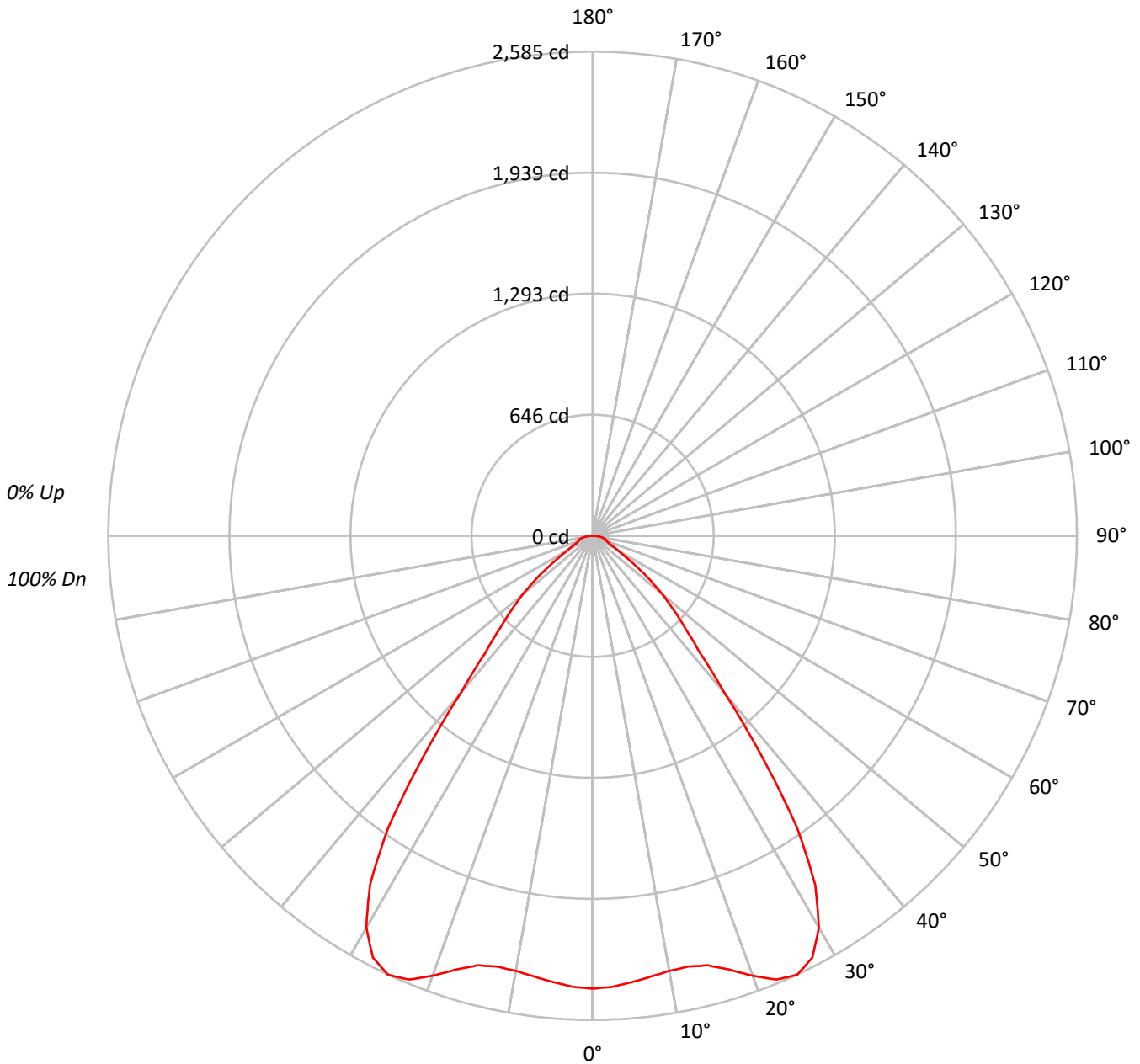
Input Watts (W): 33.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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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°	74553
5°	74039
10°	73849
15°	75788
20°	82045
25°	87963
30°	85997
35°	71607
40°	43994
45°	30465
50°	23248
55°	15247
60°	9541
65°	7151
70°	7204
75°	8292
80°	9145
85°	8208



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	227.3	5.4
10°-20°	681.5	16.1
20°-30°	1173.2	27.6
30°-40°	1136.6	26.8
40°-50°	559.9	13.2
50°-60°	264.2	6.2
60°-70°	104.1	2.5
70°-80°	71.8	1.7
80°-90°	26.6	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°	2081.9	49.0
0°-40°	3218.5	75.8
0°-60°	4042.6	95.2
0°-90°	4245.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4245.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2418	
5°	2392	227
15°	2374	681
25°	2585	1173
35°	1902	1137
45°	699	560
55°	284	264
65°	98	104
75°	70	72
85°	23	27
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	2417.7
2.5°	2410.0
5°	2391.9
7.5°	2374.0
10°	2358.5
12.5°	2355.9
15°	2374.0
17.5°	2428.0
20°	2500.2
22.5°	2564.7
25°	2585.3
27.5°	2538.9
30°	2415.2
32.5°	2211.5
35°	1902.2
37.5°	1476.9
40°	1092.9
42.5°	848.1
45°	698.6
47.5°	587.7
50°	484.6
52.5°	381.4
55°	283.6
57.5°	206.2
60°	154.7
62.5°	121.1
65°	98.0
67.5°	85.1
70°	79.9
72.5°	74.8
75°	69.6
77.5°	61.8
80°	51.5
82.5°	38.7
85°	23.2
87.5°	10.3
90°	0.0



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— 0°-180°







(END OF REPORT)