

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: P584469

Luminaire Tested: **HC835D010-HM82555930-81WDWB**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584469
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-HM82555930-81WDWB
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4222.4 lumens
Efficiency: N/A
Efficacy: 125.3 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

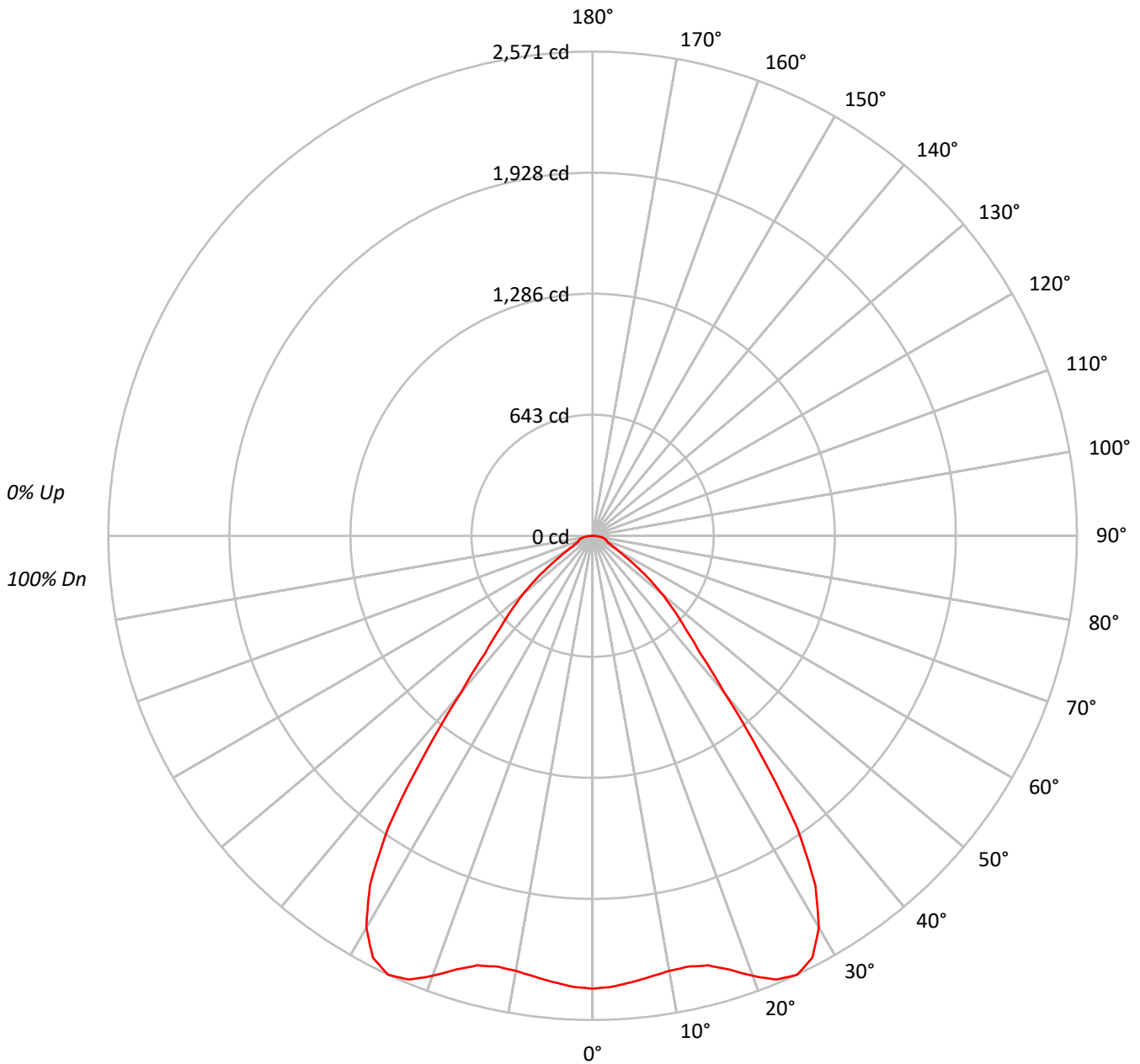
Input Watts (W): 33.7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	74152
5°	73643
10°	73452
15°	75382
20°	81605
25°	87490
30°	85534
35°	71223
40°	43760
45°	30295
50°	23123
55°	15161
60°	9485
65°	7107
70°	7159
75°	8245
80°	9110
85°	8173



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	226.1	5.4
10°-20°	677.8	16.1
20°-30°	1166.9	27.6
30°-40°	1130.5	26.8
40°-50°	556.8	13.2
50°-60°	262.8	6.2
60°-70°	103.5	2.5
70°-80°	71.5	1.7
80°-90°	26.5	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°	2070.8	49.0
0°-40°	3201.2	75.8
0°-60°	4020.8	95.2
0°-90°	4222.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4222.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2405	
5°	2379	226
15°	2361	678
25°	2571	1167
35°	1892	1130
45°	695	557
55°	282	263
65°	97	104
75°	69	71
85°	23	27
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	2404.7
2.5°	2397.1
5°	2379.1
7.5°	2361.3
10°	2345.8
12.5°	2343.3
15°	2361.3
17.5°	2415.0
20°	2486.8
22.5°	2550.9
25°	2571.4
27.5°	2525.3
30°	2402.2
32.5°	2199.6
35°	1892.0
37.5°	1469.0
40°	1087.1
42.5°	843.5
45°	694.7
47.5°	584.5
50°	482.0
52.5°	379.4
55°	282.0
57.5°	205.1
60°	153.8
62.5°	120.5
65°	97.4
67.5°	84.6
70°	79.4
72.5°	74.4
75°	69.2
77.5°	61.6
80°	51.3
82.5°	38.5
85°	23.1
87.5°	10.3
90°	0.0



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— 0°-180°







(END OF REPORT)