

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: P584444

Luminaire Tested: **HC835D010-HM82555927-81NDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584444
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-3)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC835D010-HM82555927-81NDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" NARROW DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2882.7 lumens
Efficiency: N/A
Efficacy: 85.5 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.06 / 0.92
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

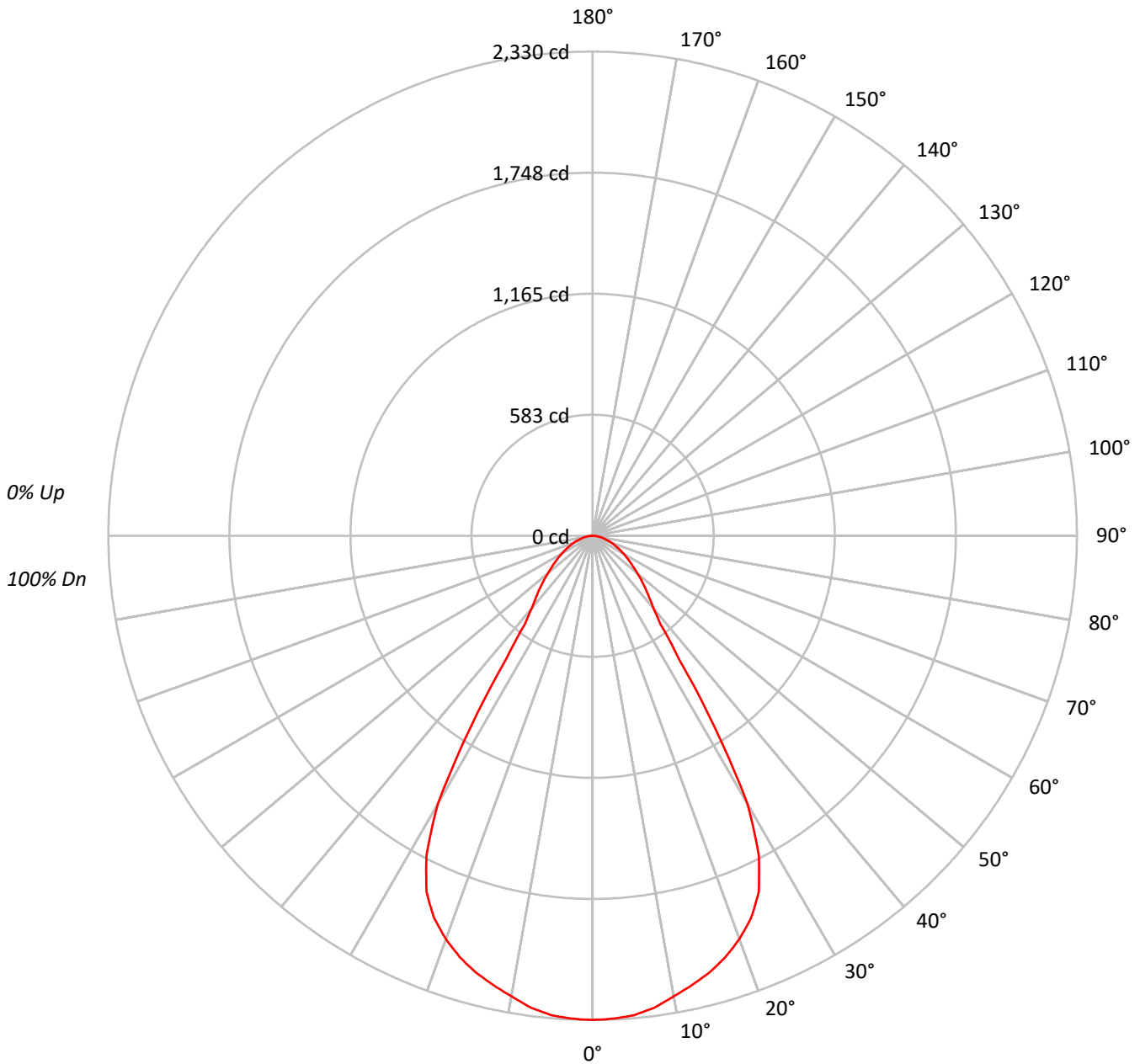
Input Watts (W): 33.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90			
2	105	99	94	90	102	97	92	88	94	90	87	91	87	85	88	85	83	81			
3	98	90	84	79	96	89	83	79	86	81	77	84	80	76	81	78	75	73			
4	92	83	76	71	90	82	76	71	80	74	70	77	73	69	75	72	68	67			
5	87	77	70	65	85	76	69	64	74	68	64	72	67	63	70	66	63	61			
6	82	71	64	59	80	70	64	59	69	63	58	67	62	58	66	61	58	56			
7	77	66	59	54	76	66	59	54	64	58	54	63	58	54	62	57	53	52			
8	73	62	55	50	71	61	55	50	60	54	50	59	54	50	58	53	49	48			
9	69	58	51	47	68	57	51	47	56	51	46	55	50	46	55	50	46	45			
10	65	55	48	44	64	54	48	44	53	47	43	52	47	43	52	47	43	42			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	71852
5°	71662
10°	70465
15°	69438
20°	67770
25°	64333
30°	53065
35°	27318
40°	18291
45°	15682
50°	13533
55°	11811
60°	10491
65°	9434
70°	8547
75°	7697
80°	6890
85°	6864



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	218.9	7.6
10°-20°	612.0	21.2
20°-30°	847.9	29.4
30°-40°	509.3	17.7
40°-50°	278.8	9.7
50°-60°	198.0	6.9
60°-70°	128.6	4.5
70°-80°	68.7	2.4
80°-90°	20.5	0.7
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°	1678.8	58.2
0°-40°	2188.0	75.9
0°-60°	2664.9	92.4
0°-90°	2882.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2882.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2330	
5°	2315	219
15°	2175	612
25°	1891	848
35°	726	509
45°	360	279
55°	220	198
65°	129	129
75°	65	69
85°	19	21
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	2330.1
2.5°	2325.8
5°	2315.1
7.5°	2289.3
10°	2250.4
12.5°	2213.9
15°	2175.1
17.5°	2125.6
20°	2065.2
22.5°	1992.0
25°	1890.8
27.5°	1731.5
30°	1490.3
32.5°	1091.9
35°	725.7
37.5°	536.2
40°	454.4
42.5°	402.8
45°	359.6
47.5°	318.7
50°	282.1
52.5°	247.6
55°	219.7
57.5°	193.8
60°	170.1
62.5°	148.6
65°	129.3
67.5°	109.9
70°	94.8
72.5°	77.5
75°	64.6
77.5°	51.6
80°	38.8
82.5°	28.0
85°	19.4
87.5°	8.6
90°	0.0



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— 0°-180°







(END OF REPORT)