

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: P584449

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

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584449
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-7)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC835D010-HM82555927-81WDC
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3616.9 lumens
Efficiency: N/A
Efficacy: 107.3 lumens/watt
Spacing Criteria (0/90/45): 1.1 / 1.1 / 1.05
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

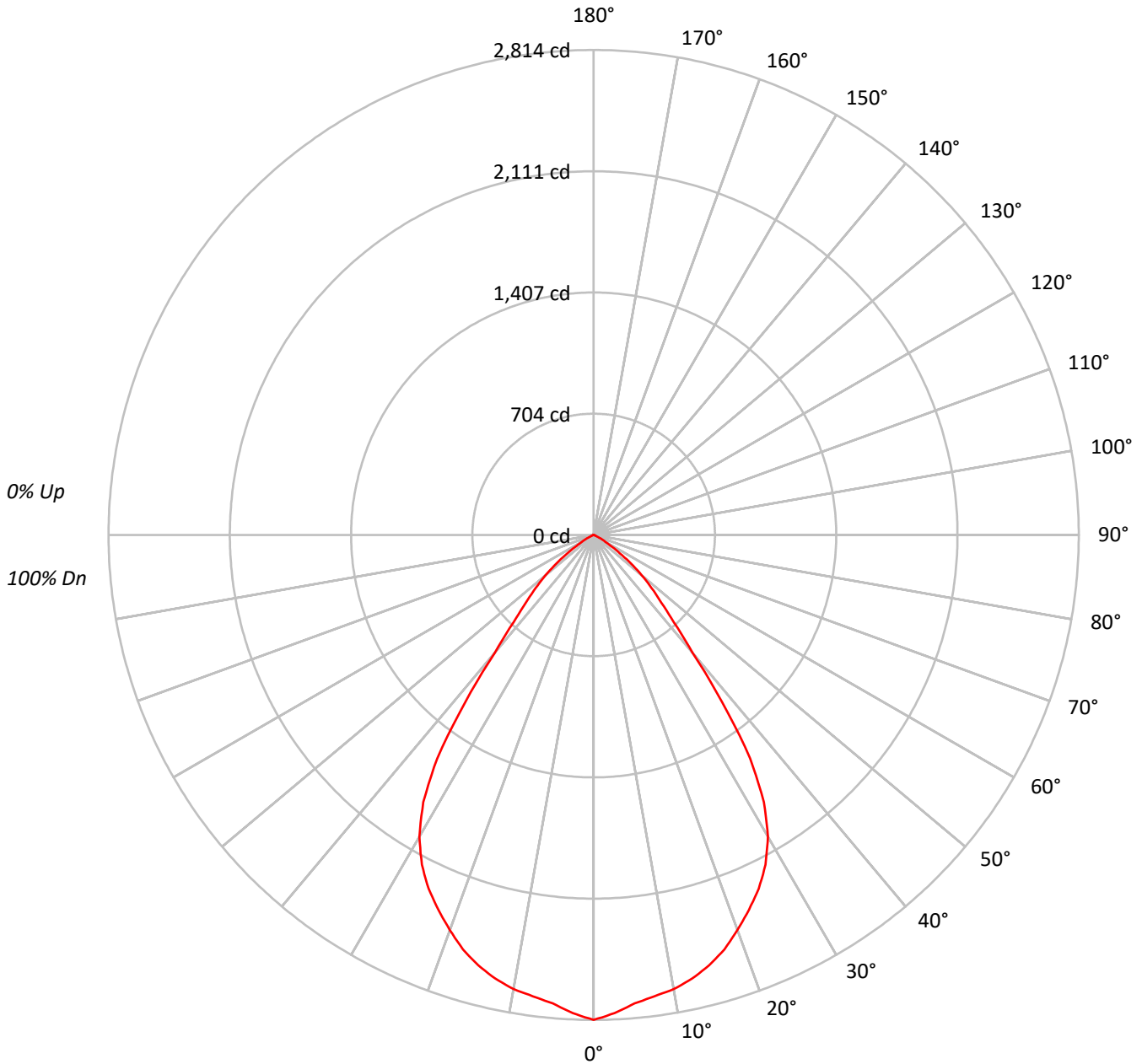
Input Watts (W): 33.7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20																	
RC	80									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	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	113	110	107	105	110	108	105	103	104	102	100	100	98	97	96	95	94	92																											
2	106	101	96	93	104	99	95	92	96	92	90	93	90	88	90	88	86	84																											
3	100	93	87	83	98	91	86	82	89	84	81	86	83	79	84	81	78	77																											
4	94	86	79	75	92	84	79	74	82	77	73	80	76	72	78	75	71	70																											
5	88	79	72	68	87	78	72	67	76	71	67	74	70	66	73	69	65	64																											
6	83	73	66	62	82	72	66	61	71	65	61	69	64	61	68	64	60	59																											
7	78	68	61	57	77	67	61	56	66	60	56	65	60	56	63	59	55	54																											
8	74	63	57	52	73	63	56	52	62	56	52	60	55	51	59	55	51	50																											
9	70	59	53	48	69	59	52	48	58	52	48	57	51	48	56	51	47	46																											
10	66	55	49	45	65	55	49	45	54	48	44	53	48	44	52	48	44	43																											

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	86776
5°	84443
10°	83800
15°	82553
20°	80053
25°	77068
30°	71986
35°	59576
40°	35967
45°	24225
50°	17453
55°	9957
60°	4379
65°	1576
70°	586
75°	262
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	259.2	7.2
10°-20°	726.7	20.1
20°-30°	1036.7	28.7
30°-40°	944.0	26.1
40°-50°	445.3	12.3
50°-60°	175.1	4.8
60°-70°	27.9	0.8
70°-80°	2.0	0.1
80°-90°	0.0	0.0
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°	2022.6	55.9
0°-40°	2966.6	82.0
0°-60°	3587.0	99.2
0°-90°	3616.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3616.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2814	
5°	2728	259
15°	2586	727
25°	2265	1037
35°	1583	944
45°	556	445
55°	185	175
65°	22	28
75°	2	2
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2814.1
2.5°	2777.4
5°	2728.0
7.5°	2699.9
10°	2676.3
12.5°	2637.5
15°	2585.9
17.5°	2521.3
20°	2439.5
22.5°	2353.4
25°	2265.1
27.5°	2157.4
30°	2021.7
32.5°	1838.7
35°	1582.6
37.5°	1222.9
40°	893.5
42.5°	686.8
45°	555.5
47.5°	456.4
50°	363.8
52.5°	273.4
55°	185.2
57.5°	116.3
60°	71.0
62.5°	43.0
65°	21.6
67.5°	10.8
70°	6.5
72.5°	2.2
75°	2.2
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)