

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: P593721

Luminaire Tested: **HC850D010-HM82555850-81WDWB**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P593721
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: HC850D010-HM82555850-81WDWB
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5712.4 lumens
Efficiency: N/A
Efficacy: 139.3 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

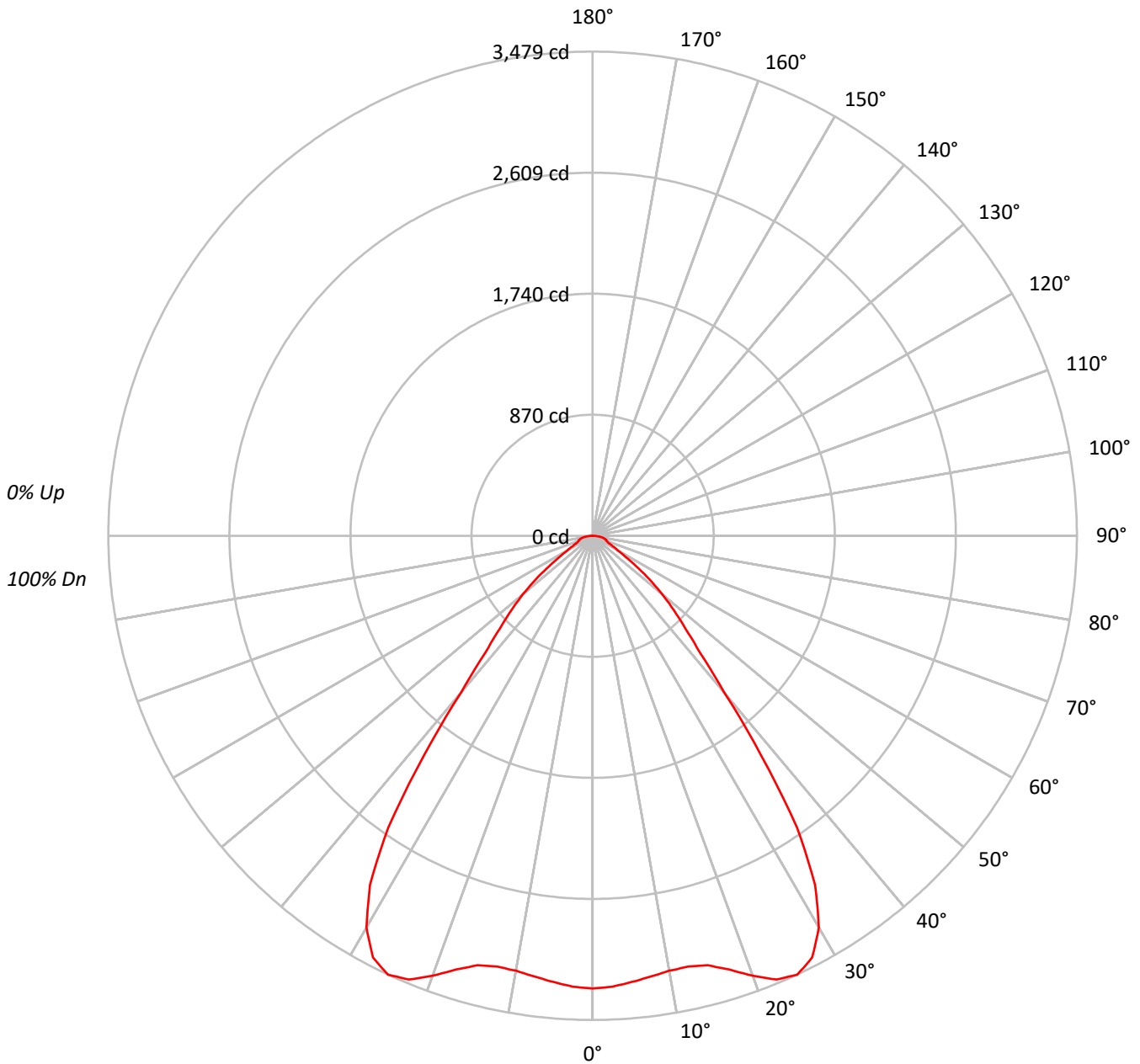
Input Watts (W): 41
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	100320
5°	99632
10°	99372
15°	101978
20°	110404
25°	118360
30°	115718
35°	96358
40°	59197
45°	40993
50°	31278
55°	20510
60°	12834
65°	9624
70°	9701
75°	11164
80°	12324
85°	11039



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	305.8	5.4
10°-20°	917.0	16.1
20°-30°	1578.6	27.6
30°-40°	1529.4	26.8
40°-50°	753.3	13.2
50°-60°	355.5	6.2
60°-70°	140.1	2.5
70°-80°	96.7	1.7
80°-90°	35.9	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°	2801.4	49.0
0°-40°	4330.9	75.8
0°-60°	5439.7	95.2
0°-90°	5712.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5712.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3253	
5°	3219	306
15°	3194	917
25°	3479	1579
35°	2560	1529
45°	940	753
55°	382	356
65°	132	140
75°	94	97
85°	31	36
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3253.3
2.5°	3243.0
5°	3218.7
7.5°	3194.4
10°	3173.6
12.5°	3170.0
15°	3194.4
17.5°	3267.3
20°	3364.4
22.5°	3451.0
25°	3478.7
27.5°	3416.4
30°	3249.9
32.5°	2975.8
35°	2559.7
37.5°	1987.4
40°	1470.6
42.5°	1141.1
45°	940.0
47.5°	790.8
50°	652.0
52.5°	513.4
55°	381.5
57.5°	277.5
60°	208.1
62.5°	163.0
65°	131.9
67.5°	114.5
70°	107.6
72.5°	100.6
75°	93.7
77.5°	83.3
80°	69.4
82.5°	52.0
85°	31.2
87.5°	13.9
90°	0.0



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— 0°-180°







(END OF REPORT)