

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: P584750

Luminaire Tested: **HC845D010-HM82555935-81NDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584750
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: HC845D010-HM82555935-81NDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" NARROW DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4256.7 lumens
Efficiency: N/A
Efficacy: 96.7 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

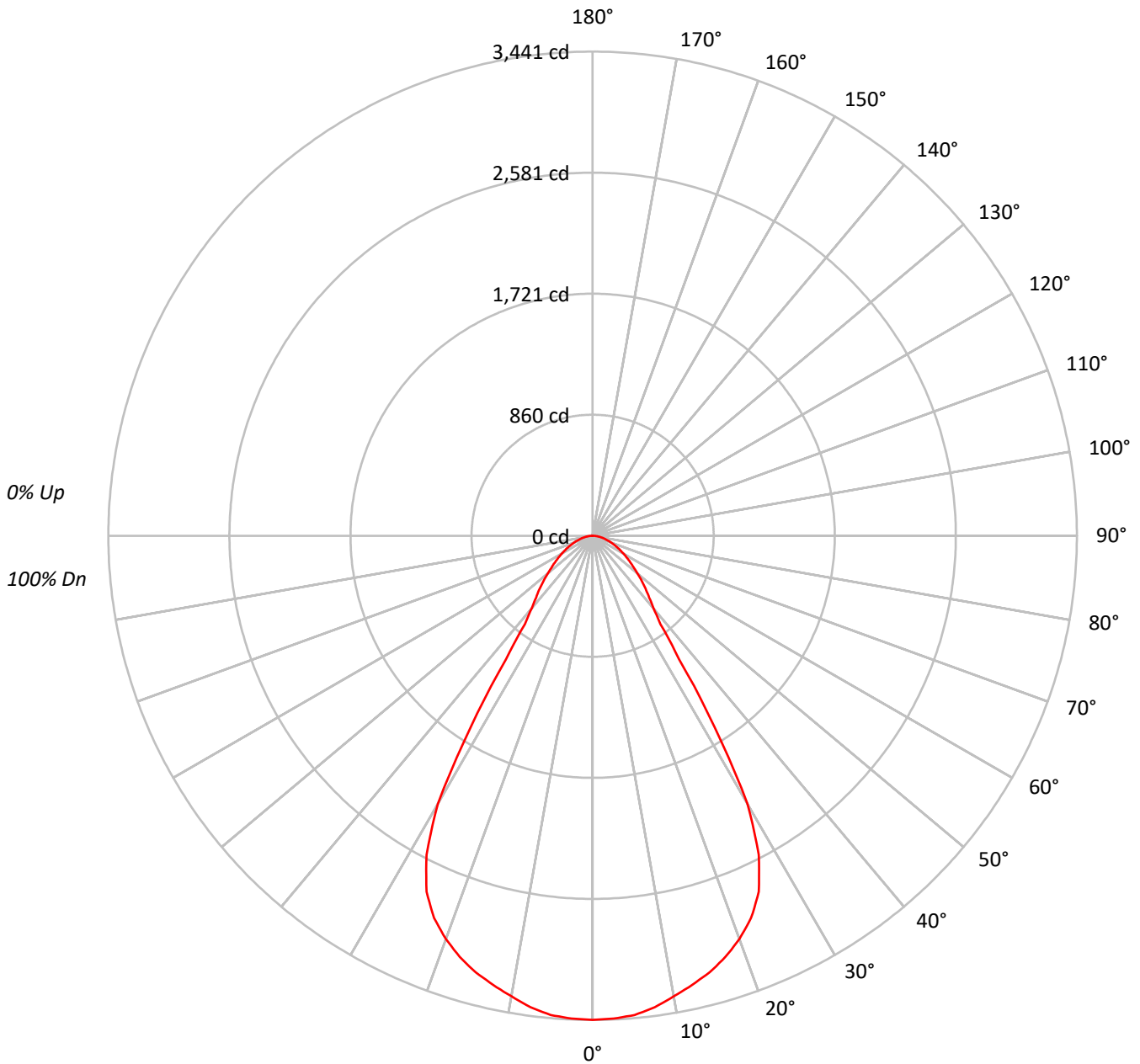
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	106102
5°	105817
10°	104053
15°	102534
20°	100074
25°	94995
30°	78353
35°	40343
40°	27010
45°	23156
50°	19981
55°	17435
60°	15498
65°	13922
70°	12613
75°	11366
80°	10158
85°	10119



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	323.2	7.6
10°-20°	903.6	21.2
20°-30°	1252.0	29.4
30°-40°	752.0	17.7
40°-50°	411.7	9.7
50°-60°	292.4	6.9
60°-70°	189.9	4.5
70°-80°	101.5	2.4
80°-90°	30.3	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°	2478.9	58.2
0°-40°	3230.9	75.9
0°-60°	3935.0	92.4
0°-90°	4256.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4256.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3441	
5°	3418	323
15°	3212	904
25°	2792	1252
35°	1072	752
45°	531	412
55°	324	292
65°	191	190
75°	95	101
85°	29	30
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3440.8
2.5°	3434.4
5°	3418.5
7.5°	3380.4
10°	3323.1
12.5°	3269.0
15°	3211.8
17.5°	3138.6
20°	3049.6
22.5°	2941.5
25°	2792.0
27.5°	2556.7
30°	2200.5
32.5°	1612.3
35°	1071.7
37.5°	791.8
40°	671.0
42.5°	594.7
45°	531.0
47.5°	470.6
50°	416.5
52.5°	365.7
55°	324.3
57.5°	286.2
60°	251.3
62.5°	219.5
65°	190.8
67.5°	162.2
70°	139.9
72.5°	114.5
75°	95.4
77.5°	76.4
80°	57.2
82.5°	41.3
85°	28.6
87.5°	12.7
90°	0.0



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— 0°-180°







(END OF REPORT)