

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: P593814

Luminaire Tested: **HC850D010-HM82555950-81NDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P593814
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: HC850D010-HM82555950-81NDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" NARROW DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4955.9 lumens
Efficiency: N/A
Efficacy: 103.2 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

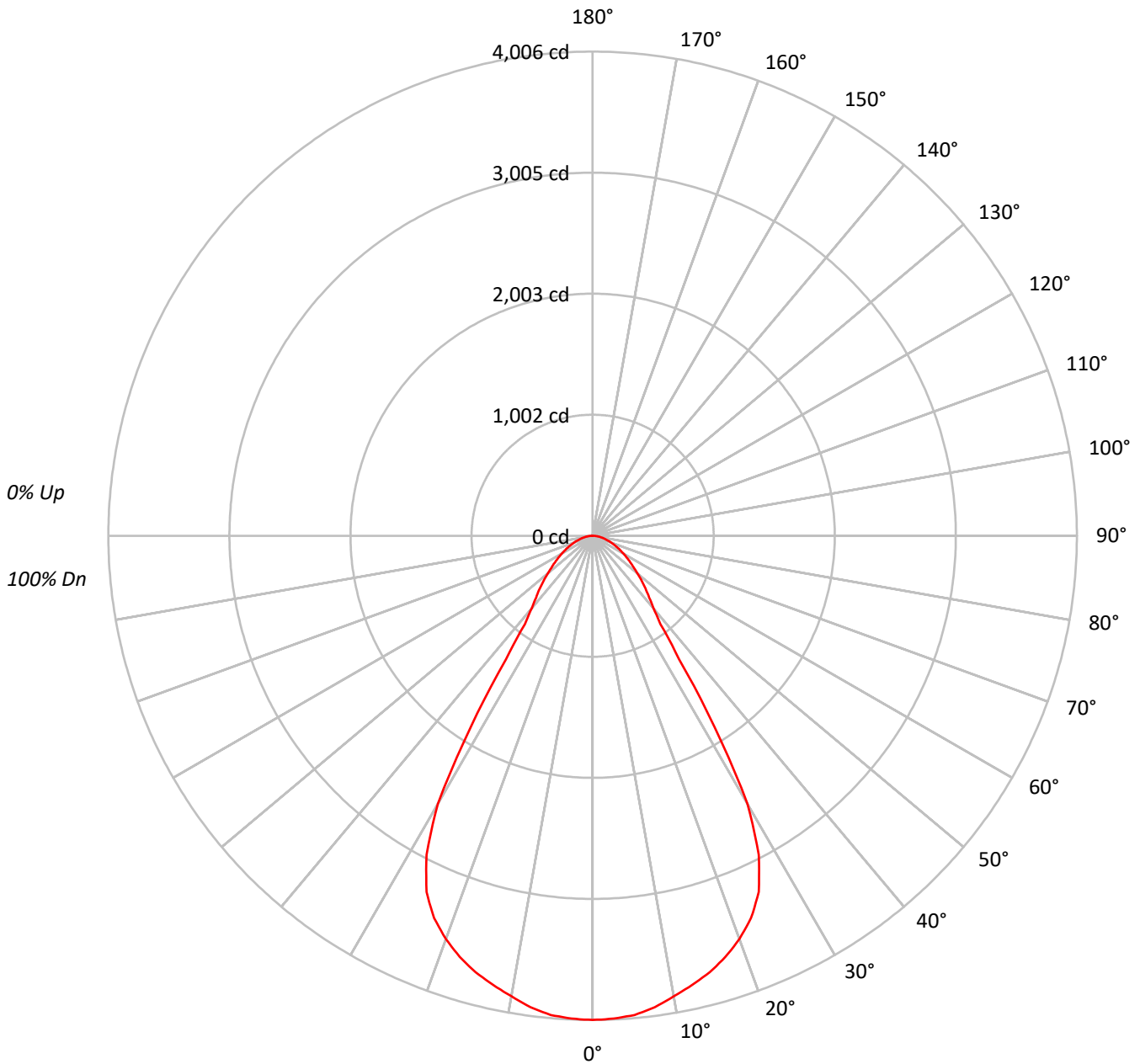
Input Watts (W): 48
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	123530
5°	123200
10°	121146
15°	119377
20°	116514
25°	110606
30°	91228
35°	46969
40°	31446
45°	26964
50°	23267
55°	20306
60°	18039
65°	16206
70°	14696
75°	13237
80°	11827
85°	11782



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	376.3	7.6
10°-20°	1052.1	21.2
20°-30°	1457.7	29.4
30°-40°	875.6	17.7
40°-50°	479.3	9.7
50°-60°	340.5	6.9
60°-70°	221.0	4.5
70°-80°	118.1	2.4
80°-90°	35.3	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°	2886.1	58.2
0°-40°	3761.7	75.9
0°-60°	4581.5	92.4
0°-90°	4955.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4955.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4006	
5°	3980	376
15°	3739	1052
25°	3251	1458
35°	1248	876
45°	618	479
55°	378	340
65°	222	221
75°	111	118
85°	33	35
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4006.0
2.5°	3998.6
5°	3980.1
7.5°	3935.7
10°	3869.0
12.5°	3806.0
15°	3739.4
17.5°	3654.3
20°	3550.6
22.5°	3424.7
25°	3250.8
27.5°	2976.7
30°	2562.1
32.5°	1877.2
35°	1247.7
37.5°	921.9
40°	781.2
42.5°	692.4
45°	618.3
47.5°	547.9
50°	485.0
52.5°	425.7
55°	377.7
57.5°	333.2
60°	292.5
62.5°	255.4
65°	222.1
67.5°	188.8
70°	163.0
72.5°	133.3
75°	111.1
77.5°	88.8
80°	66.6
82.5°	48.2
85°	33.3
87.5°	14.8
90°	0.0



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— 0°-180°







(END OF REPORT)