

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: P584801

Luminaire Tested: **HC850D010-HM82555830-81NDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584801
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-HM82555830-81NDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" NARROW DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4535.7 lumens
Efficiency: N/A
Efficacy: 94.5 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

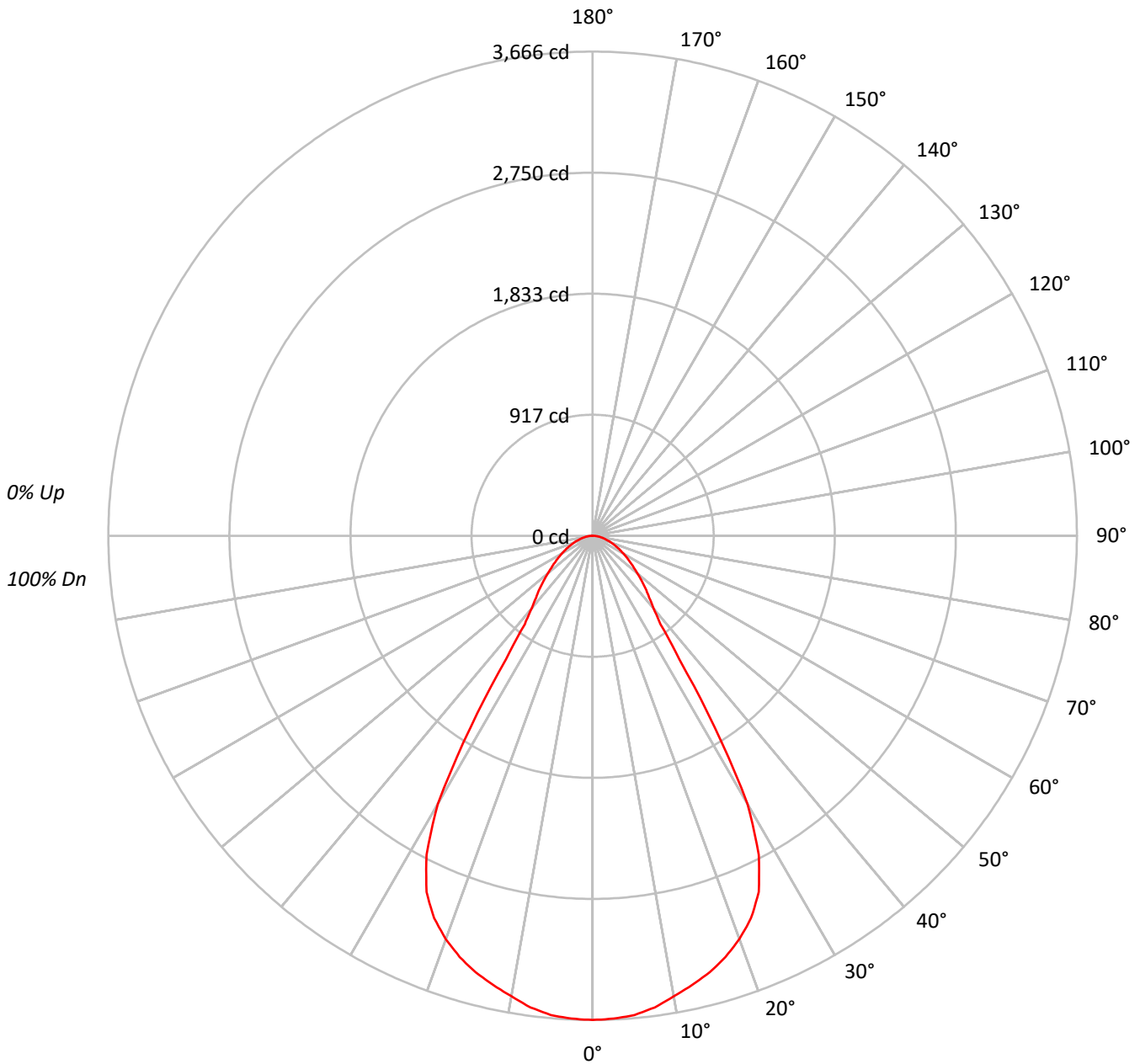
Input Watts (W): 48
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				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°	113052
5°	112750
10°	110873
15°	109251
20°	106633
25°	101222
30°	83491
35°	42986
40°	28782
45°	24678
50°	21295
55°	18585
60°	16510
65°	14834
70°	13434
75°	12117
80°	10832
85°	10791



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	344.4	7.6
10°-20°	962.9	21.2
20°-30°	1334.1	29.4
30°-40°	801.3	17.7
40°-50°	438.7	9.7
50°-60°	311.6	6.9
60°-70°	202.3	4.5
70°-80°	108.1	2.4
80°-90°	32.3	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°	2641.3	58.2
0°-40°	3442.7	75.9
0°-60°	4193.0	92.4
0°-90°	4535.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4535.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3666	
5°	3642	344
15°	3422	963
25°	2975	1334
35°	1142	801
45°	566	439
55°	346	312
65°	203	202
75°	102	108
85°	30	32
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3666.2
2.5°	3659.4
5°	3642.5
7.5°	3601.9
10°	3540.9
12.5°	3483.3
15°	3422.2
17.5°	3344.4
20°	3249.5
22.5°	3134.3
25°	2975.0
27.5°	2724.2
30°	2344.8
32.5°	1718.0
35°	1141.9
37.5°	843.7
40°	715.0
42.5°	633.6
45°	565.9
47.5°	501.5
50°	443.9
52.5°	389.6
55°	345.7
57.5°	305.0
60°	267.7
62.5°	233.8
65°	203.3
67.5°	172.8
70°	149.0
72.5°	121.9
75°	101.7
77.5°	81.4
80°	61.0
82.5°	44.1
85°	30.5
87.5°	13.6
90°	0.0



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— 0°-180°







(END OF REPORT)