

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: P584798

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

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584798
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-6)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC850D010-HM82555830-81MDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" MEDIUM DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5016.6 lumens
Efficiency: N/A
Efficacy: 104.5 lumens/watt
Spacing Criteria (0/90/45): 1 / 1 / 0.95
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

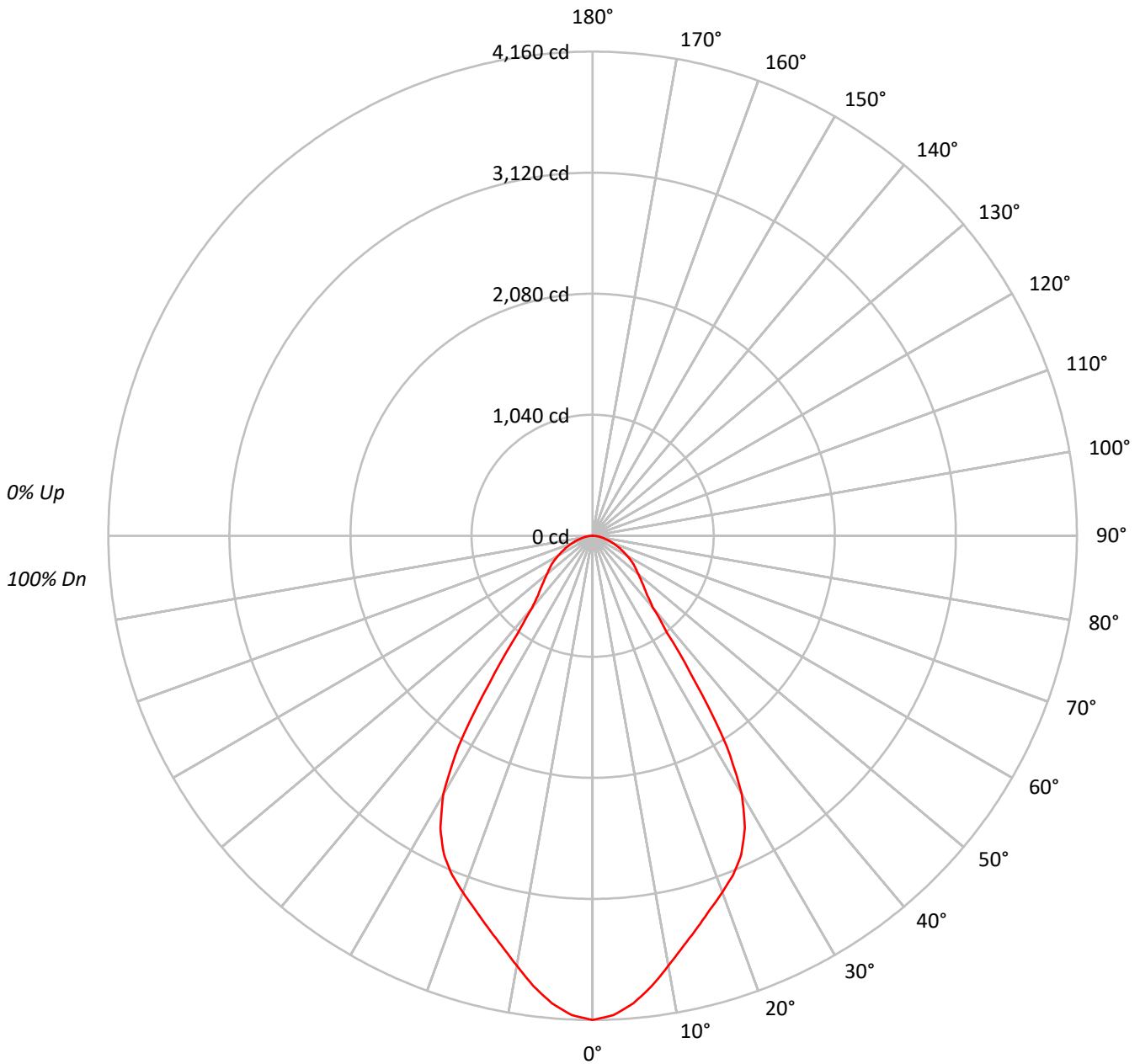
Input Watts (W): 48
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	102	99	97	98	96	94	94	93	92	90			
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	80			
3	98	89	83	78	95	88	82	78	85	80	76	83	78	75	80	77	74	72			
4	91	82	75	70	89	81	74	69	78	73	69	76	72	68	74	70	67	65			
5	86	76	68	63	84	75	68	63	73	67	62	71	66	62	69	65	61	59			
6	81	70	63	58	79	69	62	57	67	61	57	66	61	56	64	60	56	54			
7	76	65	58	53	74	64	57	53	63	57	52	62	56	52	60	55	52	50			
8	72	61	54	49	70	60	53	49	59	53	48	58	52	48	57	52	48	46			
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43			
10	64	53	46	42	63	53	46	42	52	46	42	51	46	42	50	45	42	40			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	128276
5°	124782
10°	117420
15°	111169
20°	106939
25°	102807
30°	91306
35°	58149
40°	32457
45°	27182
50°	24543
55°	23128
60°	21104
65°	19029
70°	16797
75°	14929
80°	13247
85°	11994



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	375.8	7.5
10°-20°	982.1	19.6
20°-30°	1370.1	27.3
30°-40°	985.9	19.7
40°-50°	488.6	9.7
50°-60°	382.3	7.6
60°-70°	258.8	5.2
70°-80°	134.4	2.7
80°-90°	38.7	0.8
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°	2728.0	54.4
0°-40°	3713.9	74.0
0°-60°	4584.7	91.4
0°-90°	5016.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5016.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4160	
5°	4031	376
15°	3482	982
25°	3022	1370
35°	1545	986
45°	623	489
55°	430	382
65°	261	259
75°	125	134
85°	34	39
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4159.9
2.5°	4122.6
5°	4031.2
7.5°	3902.5
10°	3750.0
12.5°	3607.8
15°	3482.3
17.5°	3363.8
20°	3258.8
22.5°	3153.7
25°	3021.6
27.5°	2832.0
30°	2564.3
32.5°	2144.3
35°	1544.7
37.5°	1053.5
40°	806.3
42.5°	694.4
45°	623.3
47.5°	562.3
50°	511.6
52.5°	467.5
55°	430.2
57.5°	386.1
60°	342.2
62.5°	298.1
65°	260.8
67.5°	223.6
70°	186.3
72.5°	155.8
75°	125.3
77.5°	98.2
80°	74.6
82.5°	54.2
85°	33.9
87.5°	17.0
90°	0.0



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— 0°-180°







(END OF REPORT)