

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: P593813

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

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P593813
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-HM82555950-81MDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" MEDIUM DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5481.6 lumens
Efficiency: N/A
Efficacy: 114.2 lumens/watt
Spacing Criteria (0/90/45): 1 / 1 / 0.95
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

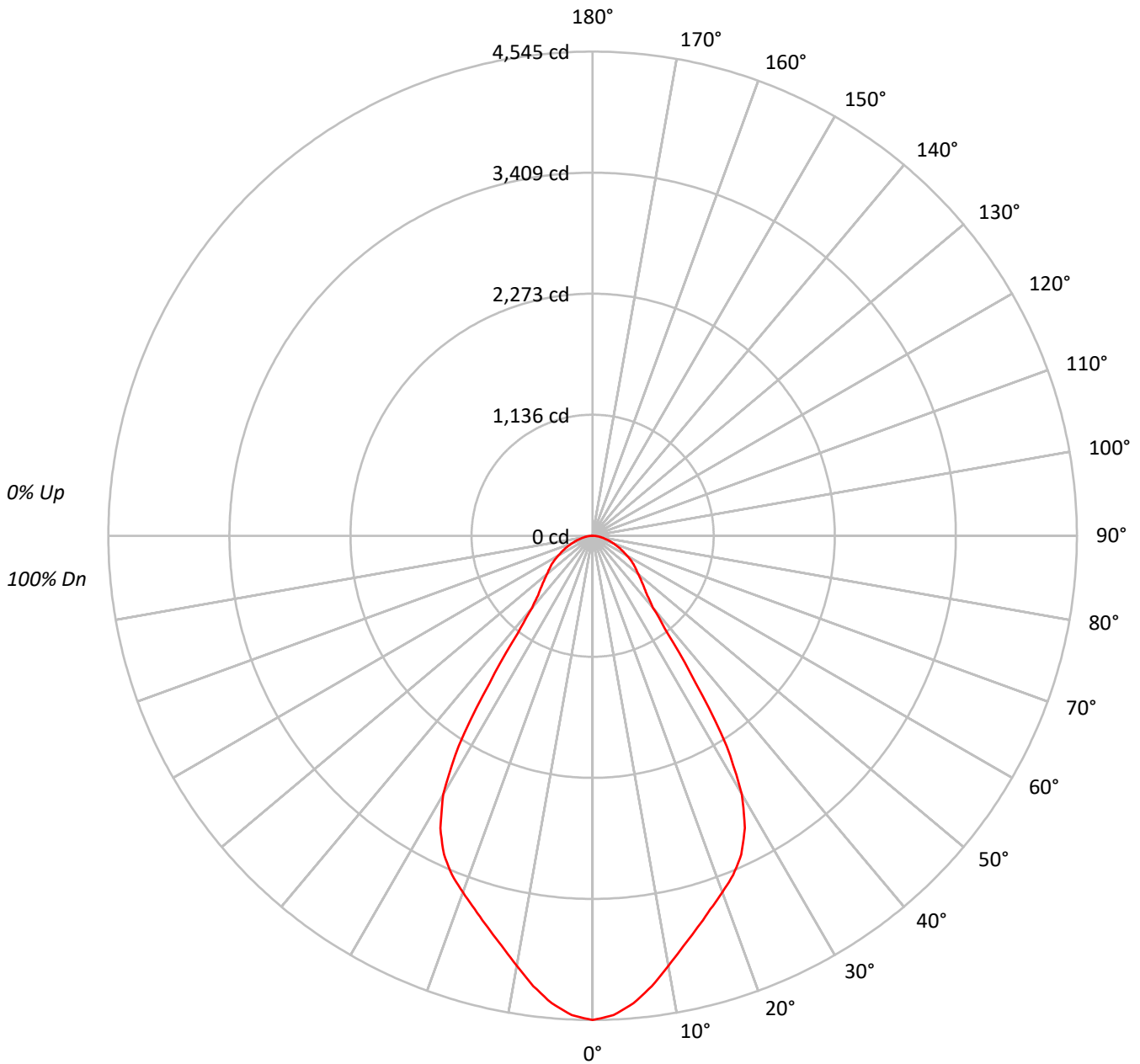
Input Watts (W): 48
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	140163
5°	136347
10°	128301
15°	121474
20°	116849
25°	112337
30°	99770
35°	63540
40°	35464
45°	29702
50°	26812
55°	25273
60°	23053
65°	20795
70°	18347
75°	16323
80°	14473
85°	13126



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	410.6	7.5
10°-20°	1073.1	19.6
20°-30°	1497.1	27.3
30°-40°	1077.2	19.7
40°-50°	533.9	9.7
50°-60°	417.7	7.6
60°-70°	282.7	5.2
70°-80°	146.9	2.7
80°-90°	42.3	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°	2980.9	54.4
0°-40°	4058.1	74.0
0°-60°	5009.7	91.4
0°-90°	5481.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5481.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4545	
5°	4405	411
15°	3805	1073
25°	3302	1497
35°	1688	1077
45°	681	534
55°	470	418
65°	285	283
75°	137	147
85°	37	42
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	4545.4
2.5°	4504.6
5°	4404.8
7.5°	4264.0
10°	4097.5
12.5°	3942.1
15°	3805.1
17.5°	3675.6
20°	3560.8
22.5°	3446.1
25°	3301.7
27.5°	3094.5
30°	2802.0
32.5°	2343.0
35°	1687.9
37.5°	1151.1
40°	881.0
42.5°	758.8
45°	681.1
47.5°	614.4
50°	558.9
52.5°	510.9
55°	470.1
57.5°	422.0
60°	373.8
62.5°	325.7
65°	285.0
67.5°	244.3
70°	203.5
72.5°	170.3
75°	137.0
77.5°	107.3
80°	81.5
82.5°	59.3
85°	37.1
87.5°	18.5
90°	0.0



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— 0°-180°







(END OF REPORT)