

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: P593796

Luminaire Tested: **HC850D010-HM82555850-81MDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P593796
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-HM82555850-81MDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" MEDIUM DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5759.4 lumens
Efficiency: N/A
Efficacy: 120.0 lumens/watt
Spacing Criteria (0/90/45): 1 / 1 / 0.95
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

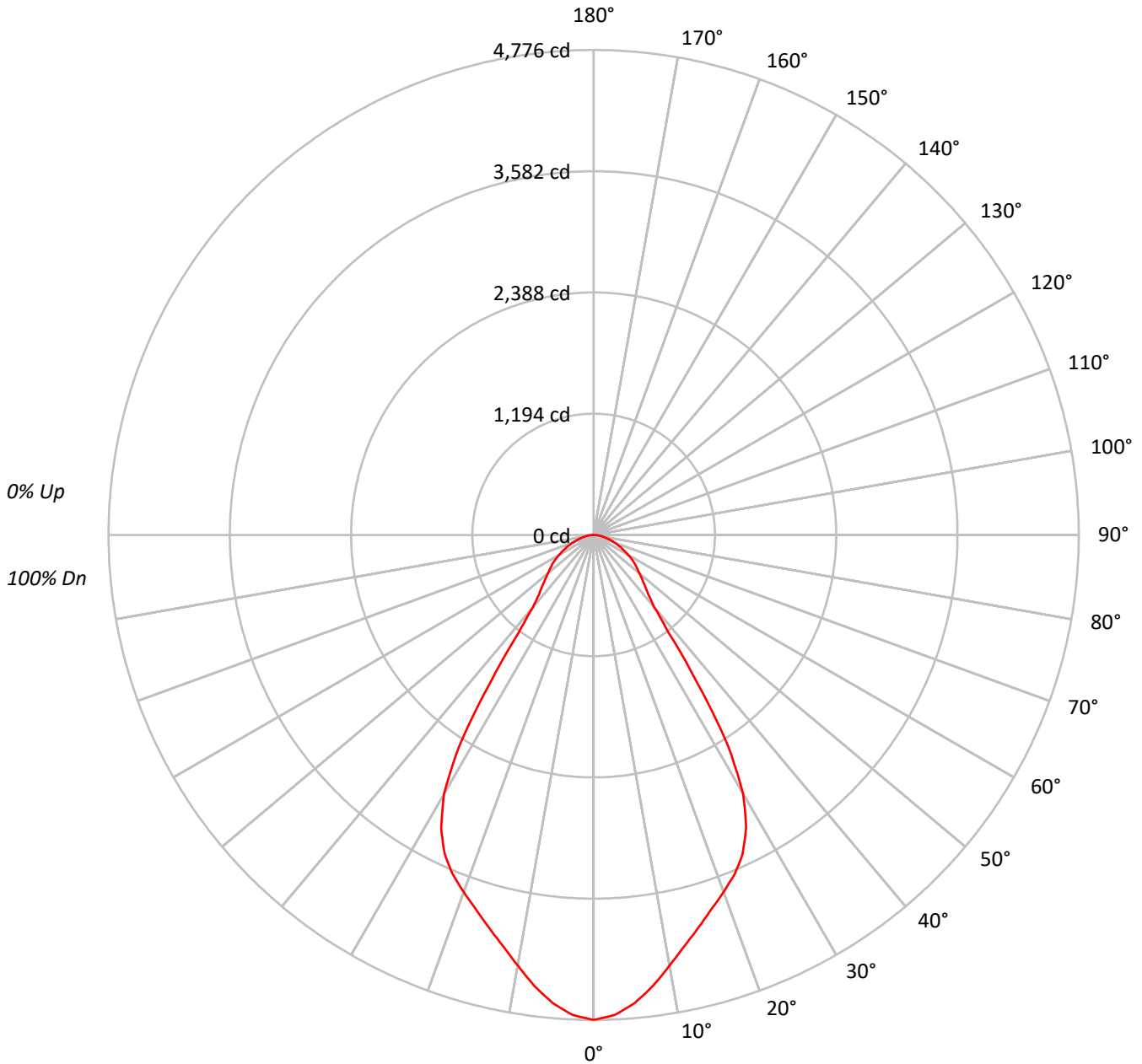
Input Watts (W): 48
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	147268
5°	143256
10°	134804
15°	127633
20°	122772
25°	118030
30°	104826
35°	66758
40°	37259
45°	31202
50°	28174
55°	26553
60°	24225
65°	21853
70°	19285
75°	17145
80°	15201
85°	13763



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	431.4	7.5
10°-20°	1127.5	19.6
20°-30°	1572.9	27.3
30°-40°	1131.8	19.7
40°-50°	560.9	9.7
50°-60°	438.9	7.6
60°-70°	297.1	5.2
70°-80°	154.3	2.7
80°-90°	44.4	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°	3131.9	54.4
0°-40°	4263.7	74.0
0°-60°	5263.5	91.4
0°-90°	5759.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5759.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4776	
5°	4628	431
15°	3998	1128
25°	3469	1573
35°	1773	1132
45°	716	561
55°	494	439
65°	300	297
75°	144	154
85°	39	44
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4775.8
2.5°	4733.0
5°	4628.0
7.5°	4480.2
10°	4305.2
12.5°	4141.9
15°	3998.0
17.5°	3861.8
20°	3741.3
22.5°	3620.7
25°	3469.0
27.5°	3251.2
30°	2944.0
32.5°	2461.8
35°	1773.4
37.5°	1209.4
40°	925.6
42.5°	797.3
45°	715.5
47.5°	645.6
50°	587.3
52.5°	536.7
55°	493.9
57.5°	443.4
60°	392.8
62.5°	342.3
65°	299.5
67.5°	256.7
70°	213.9
72.5°	178.9
75°	143.9
77.5°	112.8
80°	85.6
82.5°	62.2
85°	38.9
87.5°	19.4
90°	0.0



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— 0°-180°







(END OF REPORT)