

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: P584885

Luminaire Tested: **HC850D010-HM82555935-81NDH**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584885
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-2)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC850D010-HM82555935-81NDH
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" NARROW DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4533.9 lumens
Efficiency: N/A
Efficacy: 94.5 lumens/watt
Spacing Criteria (0/90/45): 0.42 / 0.42 / 0.57
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

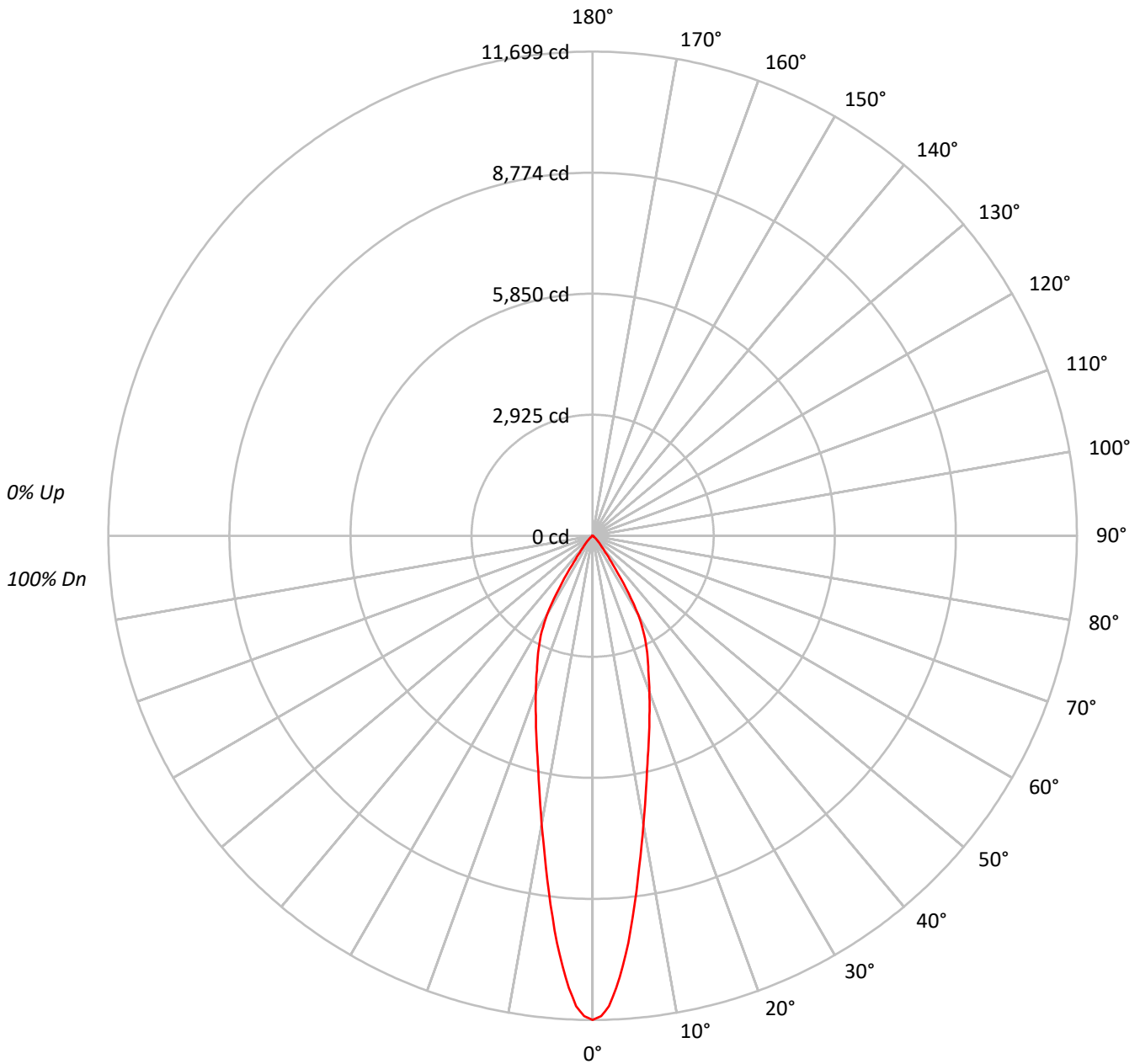
Input Watts (W): 48
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			100
1	114	112	109	107	112	109	107	106	105	104	102	102	100	99	98	97	96	95			95
2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	92	91	89			89
3	104	99	94	91	102	97	93	90	95	91	88	92	90	87	90	88	86	84			84
4	100	93	88	84	98	92	87	84	90	86	83	88	85	82	86	83	81	80			80
5	96	88	83	79	94	87	82	79	86	81	78	84	80	77	82	79	77	75			75
6	92	84	78	75	90	83	78	74	81	77	74	80	76	73	79	76	73	72			72
7	88	80	74	70	87	79	74	70	78	73	70	77	73	70	76	72	69	68			68
8	84	76	70	67	83	75	70	67	74	70	66	73	69	66	72	69	66	65			65
9	81	72	67	64	80	72	67	63	71	66	63	70	66	63	69	66	63	62			62
10	78	69	64	61	77	69	64	61	68	63	60	67	63	60	67	63	60	59			59

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	360754
5°	305635
10°	221752
15°	166529
20°	131396
25°	105985
30°	78541
35°	31821
40°	13421
45°	7200
50°	3229
55°	1629
60°	1036
65°	737
70°	613
75°	405
80°	604
85°	1203



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	847.8	18.7
10°-20°	1465.1	32.3
20°-30°	1416.5	31.2
30°-40°	622.2	13.7
40°-50°	134.5	3.0
50°-60°	30.2	0.7
60°-70°	10.4	0.2
70°-80°	4.0	0.1
80°-90°	3.2	0.1
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°	3729.4	82.3
0°-40°	4351.5	96.0
0°-60°	4516.3	99.6
0°-90°	4533.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4533.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	11699	
5°	9874	848
15°	5216	1465
25°	3115	1417
35°	845	622
45°	165	135
55°	30	30
65°	10	10
75°	3	4
85°	3	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	11699.0
1°	11611.4
2°	11372.4
3°	10941.4
4°	10426.1
5°	9873.8
6°	9271.0
7°	8664.9
8°	8095.7
9°	7566.9
10°	7082.0
11°	6624.0
12°	6213.2
13°	5839.4
14°	5509.4
15°	5216.4
17.5°	4559.7
20°	4004.1
22.5°	3515.8
25°	3115.0
27.5°	2707.5
30°	2205.8
32.5°	1498.5
35°	845.3
37.5°	498.5
40°	333.4
42.5°	235.8
45°	165.1
47.5°	107.8
50°	67.3
52.5°	40.4
55°	30.3
57.5°	23.6
60°	16.8
62.5°	13.4
65°	10.1
67.5°	6.8
70°	6.8
72.5°	3.4
75°	3.4
77.5°	3.4
80°	3.4
82.5°	3.4



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CANDELA DISTRIBUTION (continued):

0°
90° | 0.0



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— 0°-180°







85°	3.4
87.5°	3.4



(END OF REPORT)