

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: P584884

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

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584884
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-1)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC850D010-HM82555935-81NDC
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" NARROW DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4972.6 lumens
Efficiency: N/A
Efficacy: 103.6 lumens/watt
Spacing Criteria (0/90/45): 0.22 / 0.22 / 0.27
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

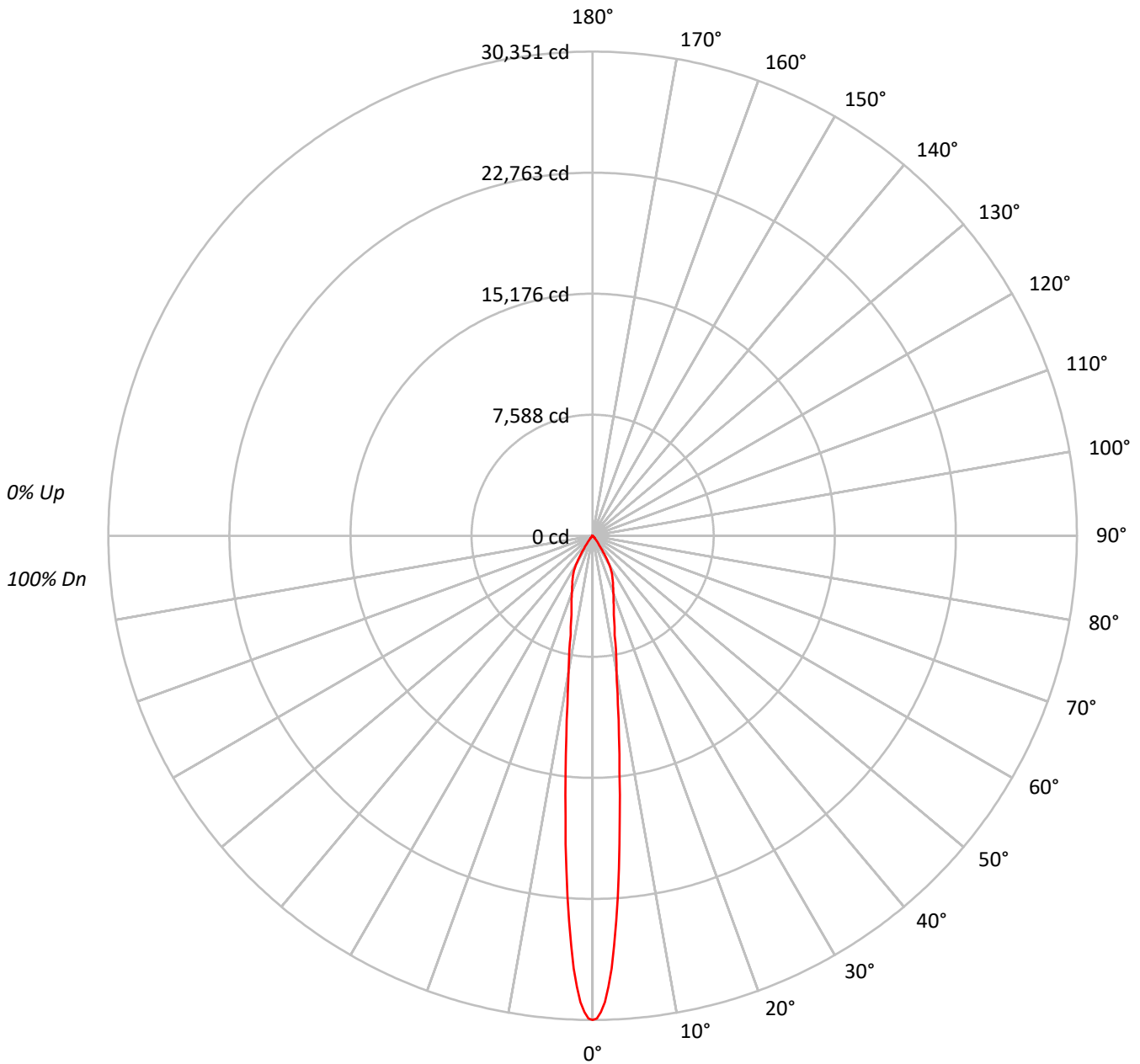
Input Watts (W): 48
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P584884

CATALOG NUMBER: HC850D010-HM82555935-81NDC

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	100	100
1	115	112	110	108	112	110	108	106	106	105	103	102	101	100	99	98	97	96	96	96	96
2	110	106	103	100	108	104	101	99	101	99	97	98	96	95	96	94	93	91	91	91	91
3	106	101	97	93	104	99	96	93	97	94	91	95	92	90	92	90	89	87	87	87	87
4	102	96	91	88	100	95	91	88	93	89	87	91	88	86	89	87	85	83	83	83	83
5	98	92	87	83	97	91	86	83	89	85	82	87	84	82	86	83	81	80	80	80	80
6	95	88	83	79	93	87	82	79	86	82	79	84	81	78	83	80	78	76	76	76	76
7	91	84	79	76	90	83	79	76	82	78	75	81	78	75	80	77	75	73	73	73	73
8	88	81	76	73	87	80	76	73	79	75	72	78	75	72	77	74	72	71	71	71	71
9	85	78	73	70	84	77	73	70	76	72	70	76	72	69	75	72	69	68	68	68	68
10	83	75	70	67	82	75	70	67	74	70	67	73	69	67	73	69	67	66	66	66	66

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	935916
5°	600318
10°	271187
15°	163627
20°	124688
25°	100691
30°	73788
35°	26716
40°	9971
45°	4527
50°	1449
55°	360
60°	210
65°	248
70°	0
75°	0
80°	604
85°	1203



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1479.1	29.7
10°-20°	1502.4	30.2
20°-30°	1344.9	27.0
30°-40°	541.7	10.9
40°-50°	88.8	1.8
50°-60°	8.1	0.2
60°-70°	2.9	0.1
70°-80°	2.3	0.0
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°	4326.4	87.0
0°-40°	4868.1	97.9
0°-60°	4965.1	99.8
0°-90°	4973.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4972.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	30351	
5°	19394	###
15°	5126	1502
25°	2959	1345
35°	710	542
45°	104	89
55°	7	8
65°	3	3
75°	0	2
85°	3	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	30351.1
0.5°	30257.3
1°	29865.7
1.5°	29236.3
2°	28282.2
2.5°	27154.0
3°	25741.1
3.5°	24191.2
4°	22657.9
4.5°	20940.4
5°	19393.8
5.5°	17709.9
6°	16343.9
6.5°	14921.1
7°	13803.0
7.5°	12621.2
8°	11670.4
8.5°	10716.3
9°	9999.9
9.5°	9209.7
10°	8660.8
12.5°	6387.6
15°	5125.5
17.5°	4379.0
20°	3799.7
22.5°	3337.7
25°	2959.4
27.5°	2581.2
30°	2072.3
32.5°	1332.4
35°	709.7
37.5°	391.7
40°	247.7
42.5°	164.0
45°	103.8
47.5°	63.6
50°	30.2
52.5°	10.1
55°	6.7
57.5°	3.4
60°	3.4
62.5°	3.4
65°	3.4



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CANDELA DISTRIBUTION (continued):

	0°
72.5°	0.0
75°	0.0
77.5°	3.4
80°	3.4
82.5°	3.4
85°	3.4
87.5°	3.4
90°	0.0



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— 0°-180°







67.5°		3.4
70°		0.0



(END OF REPORT)