

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: P593730

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

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P593730
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-12)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC850D010-HM82555850-81PSMDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" PLASTIC TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5157.3 lumens
Efficiency: N/A
Efficacy: 125.8 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.06 / 0.97
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

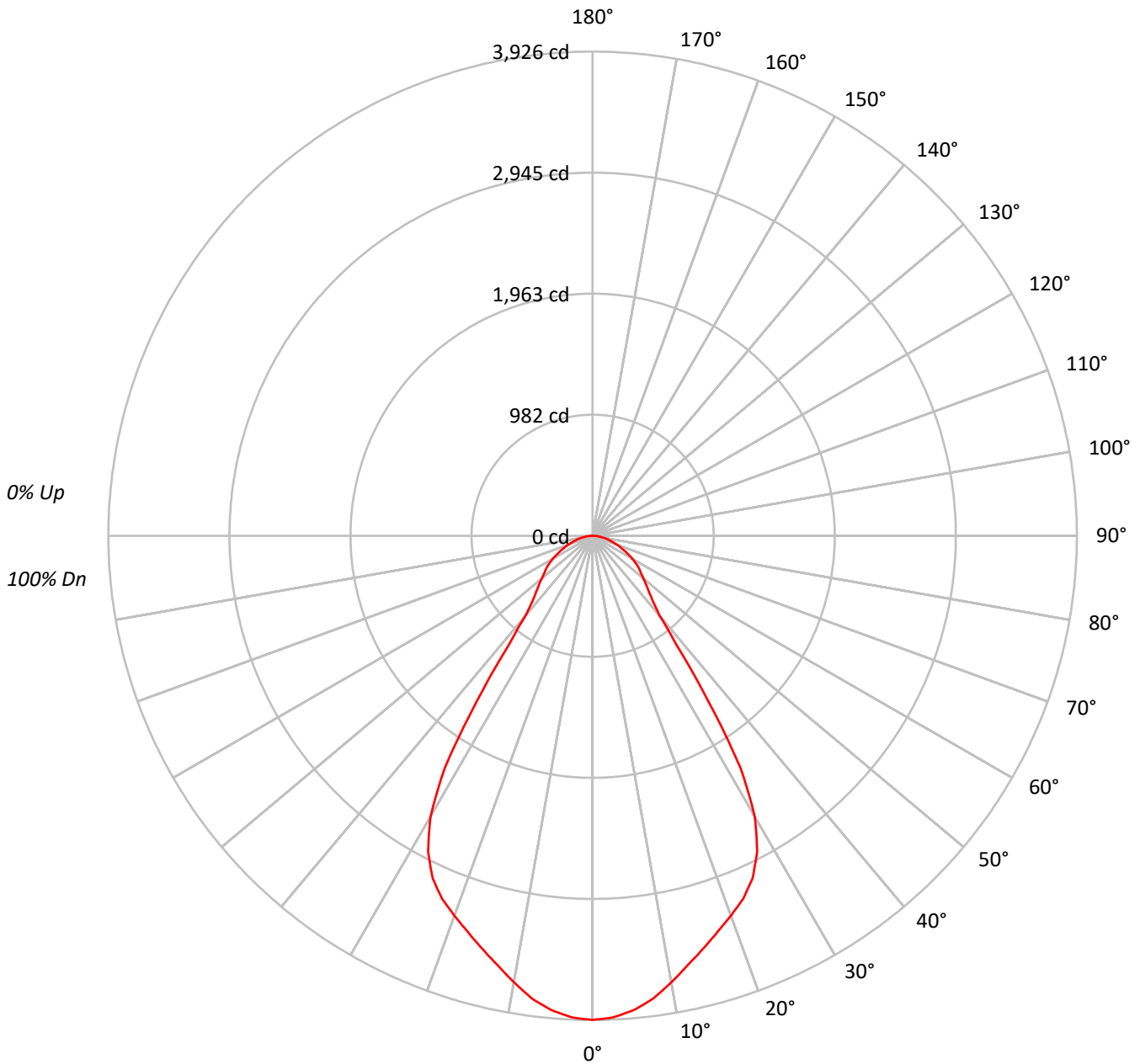
Input Watts (W): 41
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			100
1	111	108	105	102	109	106	103	100	101	99	97	98	96	94	94	93	91	89			89
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79			79
3	97	89	83	77	95	87	82	77	85	80	76	82	78	74	80	76	73	71			71
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	70	66	64			64
5	85	75	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58			58
6	80	69	62	57	78	68	61	56	67	61	56	65	60	56	64	59	55	53			53
7	75	64	57	52	74	63	57	52	62	56	51	61	55	51	60	55	51	49			49
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	45			45
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42			42
10	64	52	46	41	62	52	45	41	51	45	41	50	45	41	49	44	41	39			39

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	121057
5°	119483
10°	115106
15°	110604
20°	107549
25°	104311
30°	93603
35°	61356
40°	33926
45°	28285
50°	25785
55°	24612
60°	22881
65°	20751
70°	18762
75°	16942
80°	15414
85°	14718



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	362.7	7.0
10°-20°	977.5	19.0
20°-30°	1391.1	27.0
30°-40°	1029.5	20.0
40°-50°	509.9	9.9
50°-60°	407.0	7.9
60°-70°	282.5	5.5
70°-80°	152.3	3.0
80°-90°	44.9	0.9
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°	2731.2	53.0
0°-40°	3760.8	72.9
0°-60°	4677.7	90.7
0°-90°	5157.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5157.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3926	
5°	3860	363
15°	3465	977
25°	3066	1391
35°	1630	1030
45°	649	510
55°	458	407
65°	284	283
75°	142	152
85°	42	45
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3925.8
2.5°	3908.6
5°	3860.0
7.5°	3783.6
10°	3676.1
12.5°	3565.1
15°	3464.6
17.5°	3367.5
20°	3277.4
22.5°	3187.2
25°	3065.8
27.5°	2888.8
30°	2628.8
32.5°	2229.9
35°	1629.9
37.5°	1113.2
40°	842.8
42.5°	721.4
45°	648.6
47.5°	589.5
50°	537.5
52.5°	492.4
55°	457.8
57.5°	416.1
60°	371.0
62.5°	325.9
65°	284.4
67.5°	242.8
70°	208.1
72.5°	173.4
75°	142.2
77.5°	114.5
80°	86.8
82.5°	62.5
85°	41.6
87.5°	17.4
90°	0.0



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— 0°-180°







(END OF REPORT)