

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: P584732

Luminaire Tested: **HC845D010-HM82555930-81NDH**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584732
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: HC845D010-HM82555930-81NDH
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" NARROW DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4281.3 lumens
Efficiency: N/A
Efficacy: 97.3 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

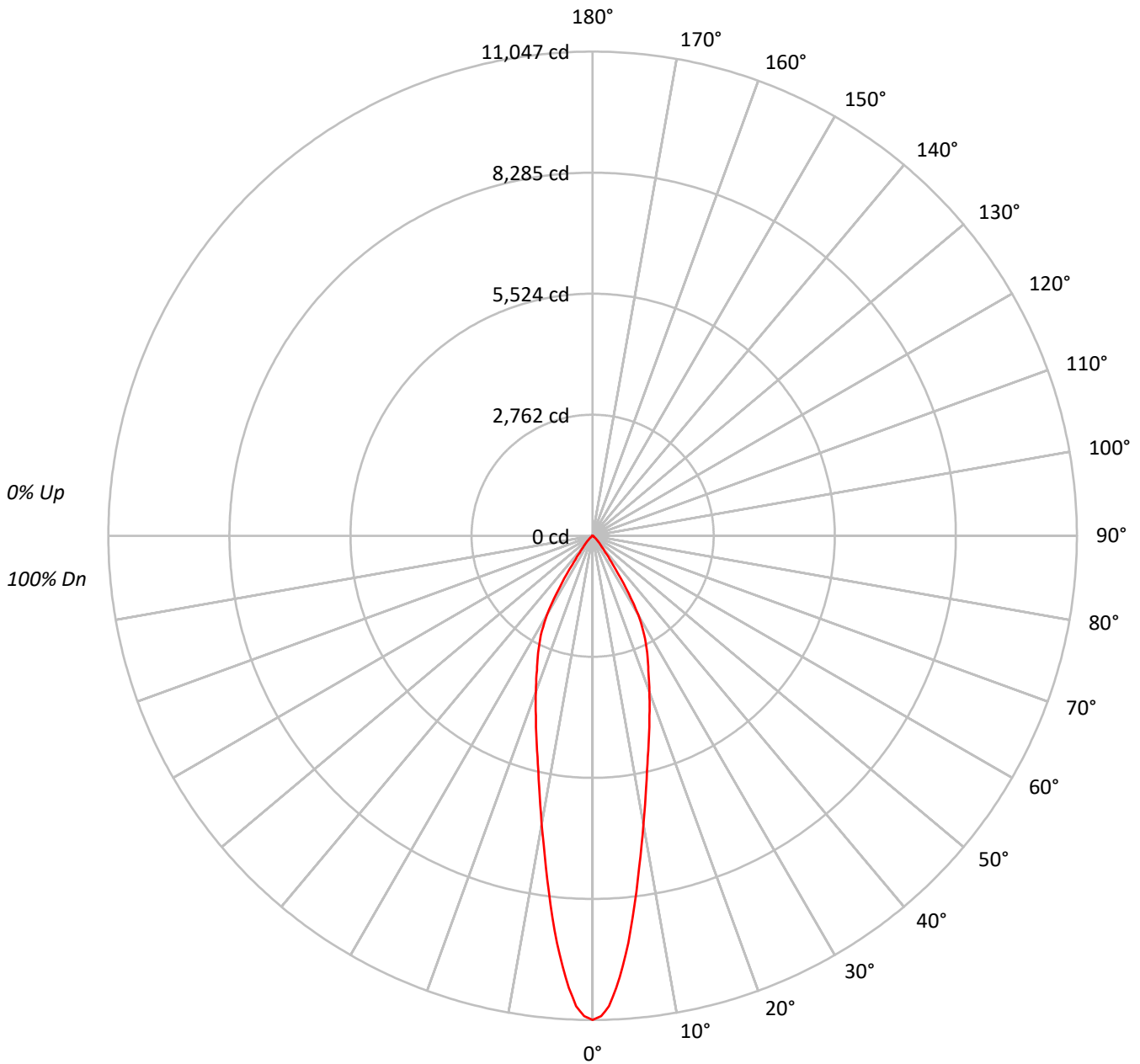
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	71	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°	340661
5°	288610
10°	209402
15°	157255
20°	124075
25°	100082
30°	74165
35°	30048
40°	12672
45°	6794
50°	3051
55°	1538
60°	987
65°	693
70°	568
75°	381
80°	568
85°	1132



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	800.5	18.7
10°-20°	1383.5	32.3
20°-30°	1337.6	31.2
30°-40°	587.5	13.7
40°-50°	127.0	3.0
50°-60°	28.5	0.7
60°-70°	9.8	0.2
70°-80°	3.8	0.1
80°-90°	3.1	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°	3521.7	82.3
0°-40°	4109.1	96.0
0°-60°	4264.7	99.6
0°-90°	4281.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4281.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	11047	
5°	9324	801
15°	4926	1383
25°	2942	1338
35°	798	587
45°	156	127
55°	29	29
65°	10	10
75°	3	4
85°	3	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	11047.4
1°	10964.7
2°	10738.9
3°	10331.9
4°	9845.3
5°	9323.8
6°	8754.6
7°	8182.3
8°	7644.8
9°	7145.6
10°	6687.6
11°	6255.1
12°	5867.1
13°	5514.2
14°	5202.5
15°	4925.9
17.5°	4305.7
20°	3781.0
22.5°	3319.9
25°	2941.5
27.5°	2556.8
30°	2082.9
32.5°	1415.1
35°	798.2
37.5°	470.6
40°	314.8
42.5°	222.6
45°	155.8
47.5°	101.8
50°	63.6
52.5°	38.1
55°	28.6
57.5°	22.3
60°	16.0
62.5°	12.7
65°	9.5
67.5°	6.3
70°	6.3
72.5°	3.2
75°	3.2
77.5°	3.2
80°	3.2
82.5°	3.2



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CANDELA DISTRIBUTION (continued):

0°
90° | 0.0



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— 0°-180°







85°	3.2
87.5°	3.2



(END OF REPORT)