

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: P584734

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

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584734
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: HC845D010-HM82555930-81PSMDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" PLASTIC TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4701.8 lumens
Efficiency: N/A
Efficacy: 106.9 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

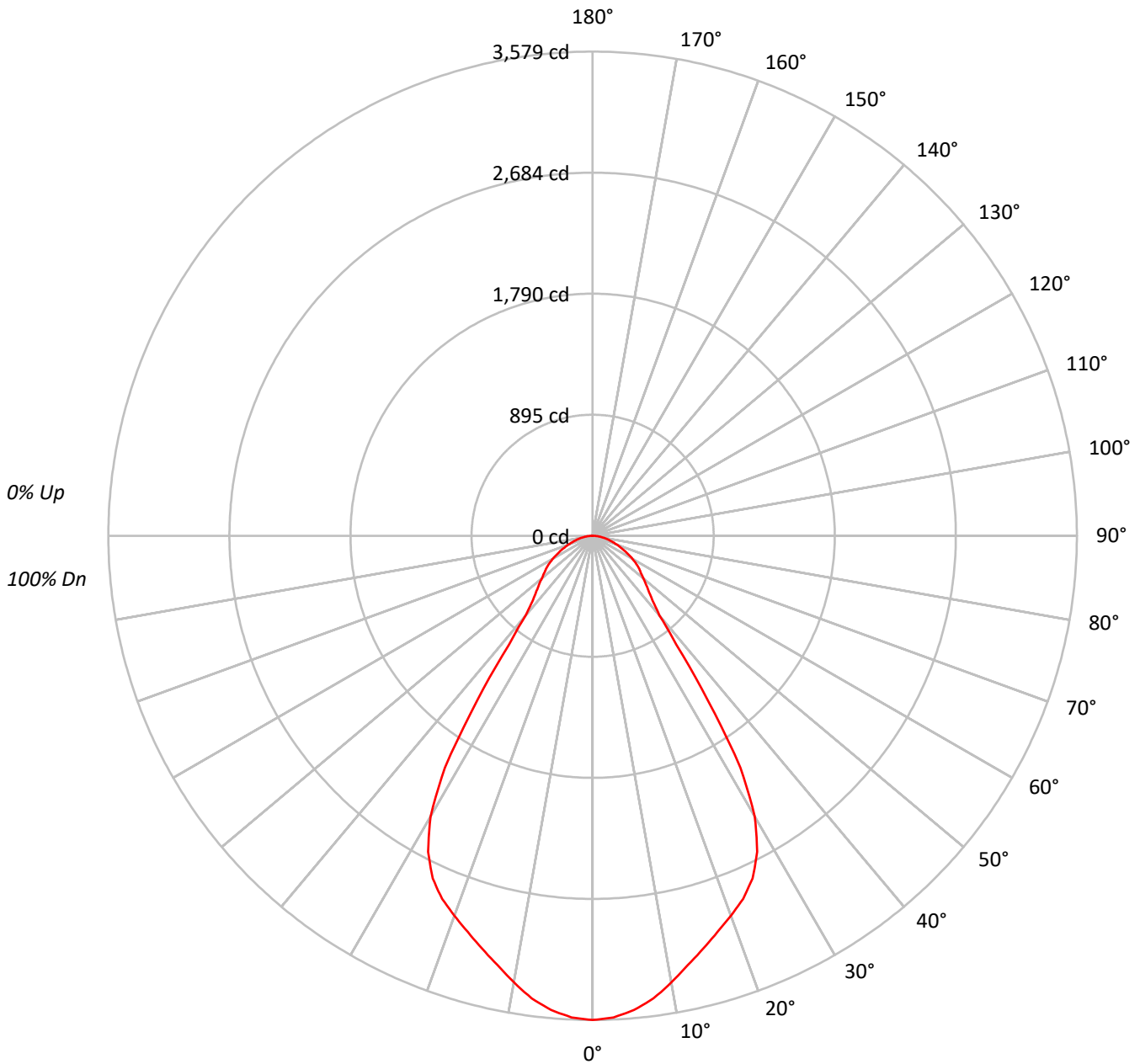
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	110366
5°	108927
10°	104942
15°	100832
20°	98049
25°	95097
30°	85335
35°	55943
40°	30927
45°	25782
50°	23511
55°	22440
60°	20864
65°	18913
70°	17103
75°	15441
80°	14047
85°	13409



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	330.6	7.0
10°-20°	891.1	19.0
20°-30°	1268.2	27.0
30°-40°	938.6	20.0
40°-50°	464.9	9.9
50°-60°	371.1	7.9
60°-70°	257.6	5.5
70°-80°	138.8	3.0
80°-90°	40.9	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°	2490.0	53.0
0°-40°	3428.6	72.9
0°-60°	4264.6	90.7
0°-90°	4701.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4701.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3579	
5°	3519	331
15°	3158	891
25°	2795	1268
35°	1486	939
45°	591	465
55°	417	371
65°	259	258
75°	130	139
85°	38	41
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3579.1
2.5°	3563.3
5°	3519.0
7.5°	3449.4
10°	3351.5
12.5°	3250.3
15°	3158.5
17.5°	3070.1
20°	2987.9
22.5°	2905.6
25°	2795.0
27.5°	2633.7
30°	2396.6
32.5°	2033.0
35°	1486.1
37.5°	1014.9
40°	768.3
42.5°	657.7
45°	591.2
47.5°	537.5
50°	490.1
52.5°	449.0
55°	417.4
57.5°	379.5
60°	338.3
62.5°	297.2
65°	259.2
67.5°	221.3
70°	189.7
72.5°	158.1
75°	129.6
77.5°	104.3
80°	79.1
82.5°	56.9
85°	37.9
87.5°	15.8
90°	0.0



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— 0°-180°







(END OF REPORT)