

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: P584733

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

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584733
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-3)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC845D010-HM82555930-81NDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" NARROW DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4233.9 lumens
Efficiency: N/A
Efficacy: 96.2 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.06 / 0.92
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

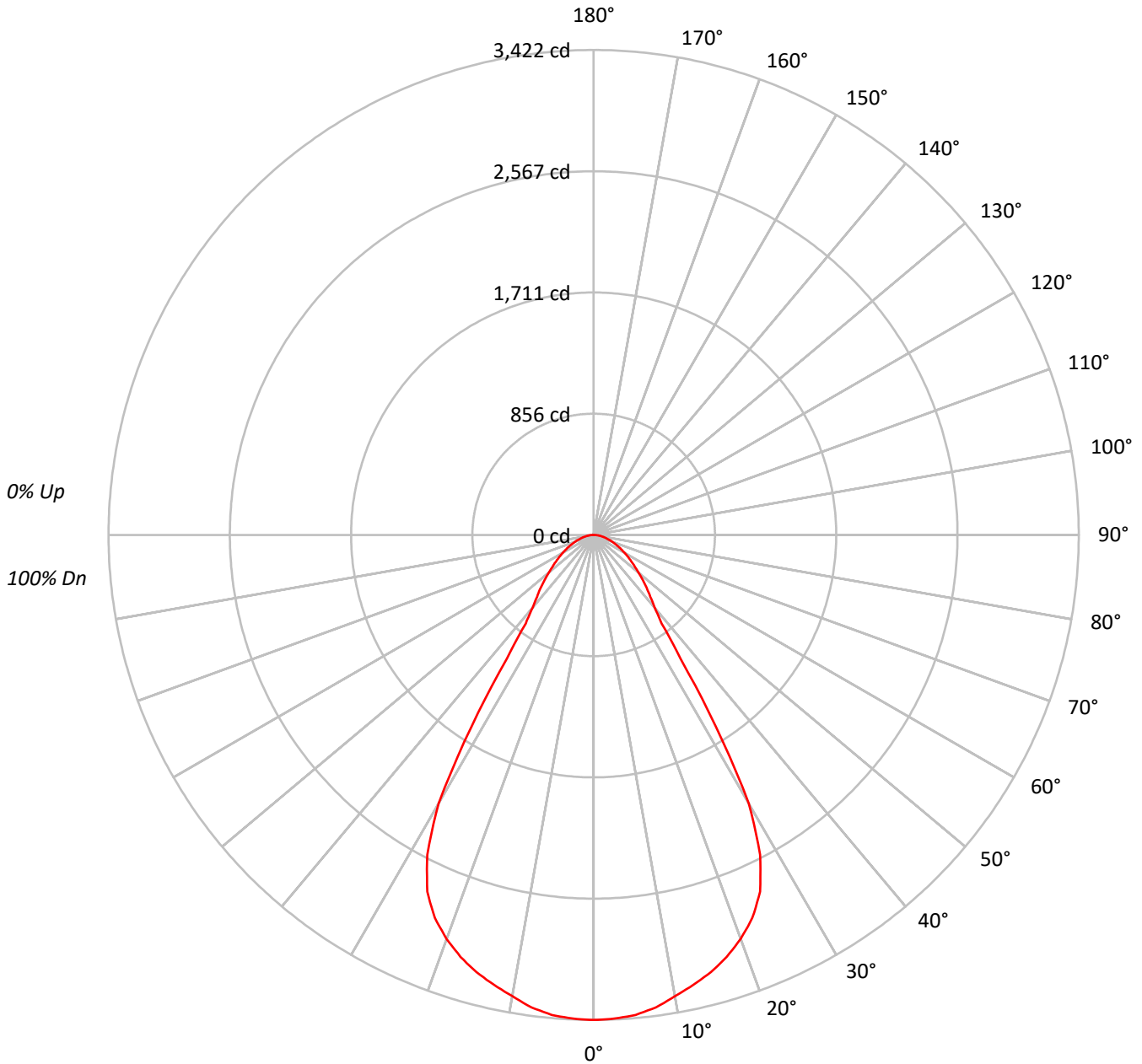
Input Watts (W): 44
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90			90
2	105	99	94	90	102	97	92	88	94	90	87	91	87	85	88	85	83	81			81
3	98	90	84	79	96	89	83	79	86	81	77	84	80	76	81	78	75	73			73
4	92	83	76	71	90	82	76	71	80	74	70	77	73	69	75	72	68	67			67
5	87	77	70	65	85	76	69	64	74	68	64	72	67	63	70	66	63	61			61
6	82	71	64	59	80	70	64	59	69	63	58	67	62	58	66	61	58	56			56
7	77	66	59	54	76	66	59	54	64	58	54	63	58	54	62	57	53	52			52
8	73	62	55	50	71	61	55	50	60	54	50	59	54	50	58	53	49	48			48
9	69	58	51	47	68	57	51	47	56	51	46	55	50	46	55	50	46	45			45
10	65	55	48	44	64	54	48	44	53	47	43	52	47	43	52	47	43	42			42

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	105531
5°	105250
10°	103496
15°	101982
20°	99539
25°	94488
30°	77936
35°	40125
40°	26865
45°	23034
50°	19875
55°	17343
60°	15406
65°	13849
70°	12541
75°	11307
80°	10104
85°	10084



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	321.5	7.6
10°-20°	898.8	21.2
20°-30°	1245.3	29.4
30°-40°	748.0	17.7
40°-50°	409.5	9.7
50°-60°	290.9	6.9
60°-70°	188.8	4.5
70°-80°	100.9	2.4
80°-90°	30.2	0.7
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°	2465.6	58.2
0°-40°	3213.6	75.9
0°-60°	3913.9	92.4
0°-90°	4233.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4233.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3422	
5°	3400	321
15°	3194	899
25°	2777	1245
35°	1066	748
45°	528	409
55°	323	291
65°	190	189
75°	95	101
85°	28	30
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3422.3
2.5°	3416.0
5°	3400.2
7.5°	3362.2
10°	3305.3
12.5°	3251.6
15°	3194.5
17.5°	3121.8
20°	3033.3
22.5°	2925.7
25°	2777.1
27.5°	2543.1
30°	2188.8
32.5°	1603.6
35°	1065.9
37.5°	787.6
40°	667.4
42.5°	591.4
45°	528.2
47.5°	468.1
50°	414.3
52.5°	363.7
55°	322.6
57.5°	284.7
60°	249.8
62.5°	218.3
65°	189.8
67.5°	161.3
70°	139.1
72.5°	113.9
75°	94.9
77.5°	75.9
80°	56.9
82.5°	41.2
85°	28.5
87.5°	12.7
90°	0.0



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— 0°-180°







(END OF REPORT)