

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: P593779

Luminaire Tested: **HC845D010-HM82555950-81MDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P593779
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-6)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC845D010-HM82555950-81MDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" MEDIUM DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5204.0 lumens
Efficiency: N/A
Efficacy: 118.3 lumens/watt
Spacing Criteria (0/90/45): 1 / 1 / 0.95
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

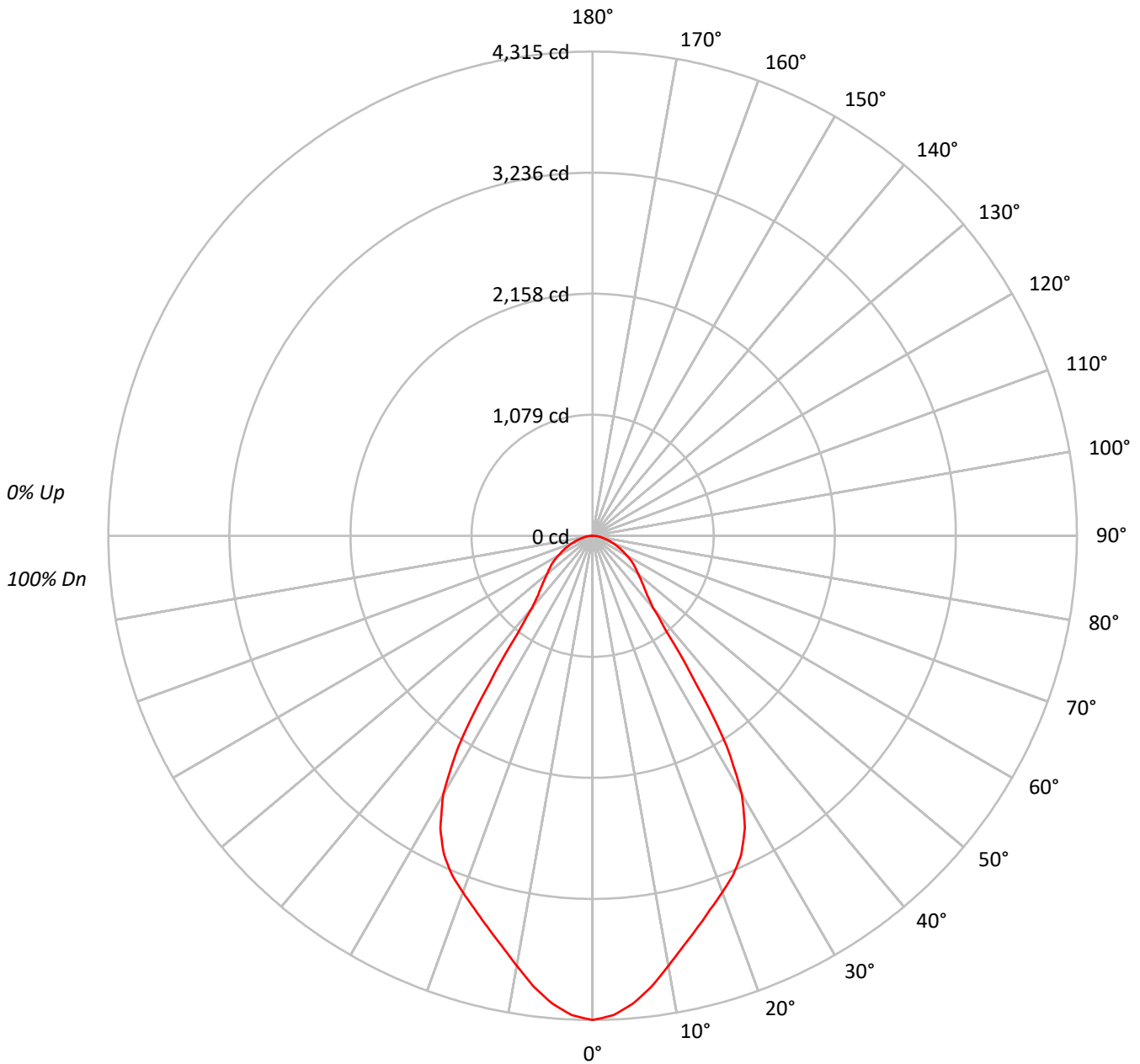
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90			
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	80			
3	98	89	83	78	95	88	82	78	85	80	76	83	78	75	80	77	74	72			
4	91	82	75	70	89	81	74	69	78	73	69	76	72	68	74	70	67	65			
5	86	76	68	63	84	75	68	63	73	67	62	71	66	62	69	65	61	59			
6	81	70	63	58	79	69	62	57	67	61	57	66	61	56	64	60	56	54			
7	76	65	58	53	74	64	57	53	63	57	52	62	56	52	60	55	52	50			
8	72	61	54	49	70	60	53	49	59	53	48	58	52	48	57	52	48	46			
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43			
10	64	53	46	42	63	53	46	42	52	46	42	51	46	42	50	45	42	40			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	133068
5°	129441
10°	121807
15°	115326
20°	110935
25°	106652
30°	94717
35°	60321
40°	33664
45°	28198
50°	25459
55°	23994
60°	21888
65°	19744
70°	17428
75°	15489
80°	13727
85°	12454



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	389.8	7.5
10°-20°	1018.8	19.6
20°-30°	1421.3	27.3
30°-40°	1022.7	19.7
40°-50°	506.8	9.7
50°-60°	396.5	7.6
60°-70°	268.4	5.2
70°-80°	139.4	2.7
80°-90°	40.2	0.8
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°	2830.0	54.4
0°-40°	3852.7	74.0
0°-60°	4756.0	91.4
0°-90°	5204.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5204.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4315	
5°	4182	390
15°	3612	1019
25°	3135	1421
35°	1602	1023
45°	647	507
55°	446	397
65°	271	268
75°	130	139
85°	35	40
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4315.3
2.5°	4276.6
5°	4181.7
7.5°	4048.3
10°	3890.1
12.5°	3742.6
15°	3612.5
17.5°	3489.6
20°	3380.6
22.5°	3271.6
25°	3134.6
27.5°	2937.8
30°	2660.1
32.5°	2224.5
35°	1602.4
37.5°	1092.9
40°	836.3
42.5°	720.3
45°	646.6
47.5°	583.3
50°	530.7
52.5°	484.9
55°	446.3
57.5°	400.6
60°	354.9
62.5°	309.2
65°	270.6
67.5°	231.9
70°	193.3
72.5°	161.6
75°	130.0
77.5°	101.9
80°	77.3
82.5°	56.2
85°	35.2
87.5°	17.6
90°	0.0



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— 0°-180°







(END OF REPORT)