

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: P579838

Luminaire Tested: **HC415D010-HM40525827-41NDW**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P579838
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-3)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC415D010-HM40525827-41NDW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" NARROW DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1223.5 lumens
Efficiency: N/A
Efficacy: 87.4 lumens/watt
Spacing Criteria (0/90/45): 1.03 / 1.03 / 1.01
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

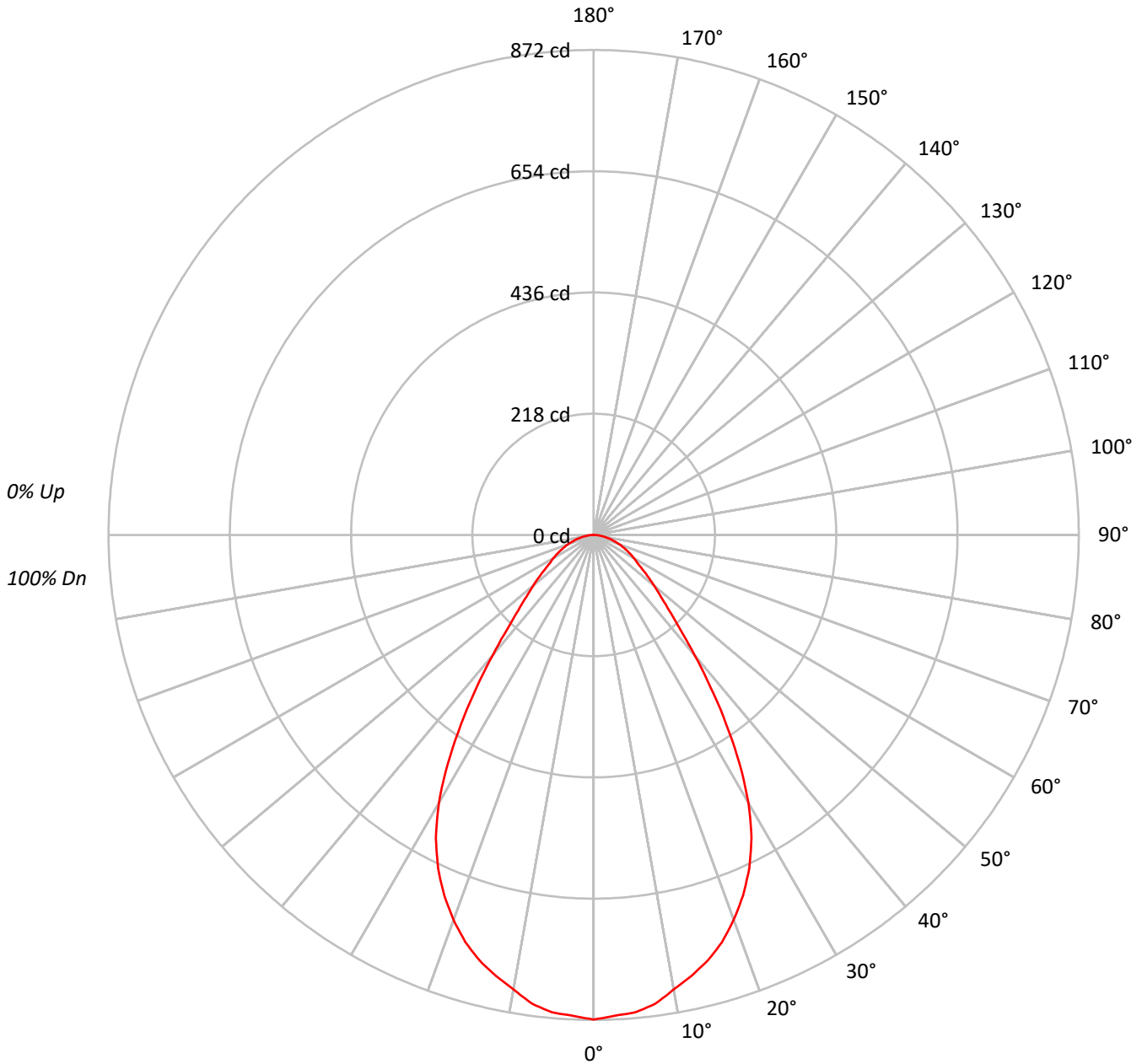
Input Watts (W): 14
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			
1	111	108	104	101	109	105	102	100	101	99	97	98	96	94	94	92	91	89			
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79			
3	97	88	82	77	95	87	81	76	84	79	75	82	77	74	79	76	73	71			
4	90	81	74	68	88	80	73	68	77	72	67	75	70	66	73	69	65	64			
5	85	74	67	61	83	73	66	61	71	65	60	69	64	60	68	63	59	58			
6	79	68	61	56	78	67	60	55	66	60	55	64	59	55	63	58	54	52			
7	75	63	56	51	73	62	56	51	61	55	50	60	54	50	59	53	50	48			
8	70	59	52	47	69	58	51	46	57	51	46	56	50	46	55	50	46	44			
9	66	55	48	43	65	54	47	43	53	47	43	52	47	43	51	46	42	41			
10	63	51	44	40	62	51	44	40	50	44	40	49	43	39	48	43	39	38			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	107496
5°	106693
10°	103919
15°	101187
20°	96648
25°	90042
30°	79289
35°	62535
40°	45390
45°	33352
50°	27133
55°	22773
60°	20623
65°	18942
70°	17635
75°	16108
80°	14562
85°	12596



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.2	6.6
10°-20°	222.2	18.2
20°-30°	301.2	24.6
30°-40°	258.5	21.1
40°-50°	152.6	12.5
50°-60°	96.7	7.9
60°-70°	65.0	5.3
70°-80°	35.9	2.9
80°-90°	10.0	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°	604.7	49.4
0°-40°	863.3	70.6
0°-60°	1112.6	90.9
0°-90°	1223.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1223.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	872	
5°	862	81
15°	792	222
25°	662	301
35°	415	259
45°	191	153
55°	106	97
65°	65	65
75°	34	36
85°	9	10
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	871.5
2.5°	865.3
5°	861.7
7.5°	850.1
10°	829.7
12.5°	811.9
15°	792.4
17.5°	767.5
20°	736.3
22.5°	701.6
25°	661.6
27.5°	614.4
30°	556.7
32.5°	488.2
35°	415.3
37.5°	345.1
40°	281.9
42.5°	229.4
45°	191.2
47.5°	163.6
50°	141.4
52.5°	122.7
55°	105.9
57.5°	92.4
60°	83.6
62.5°	74.7
65°	64.9
67.5°	57.0
70°	48.9
72.5°	40.9
75°	33.8
77.5°	26.7
80°	20.5
82.5°	14.2
85°	8.9
87.5°	3.5
90°	0.0



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— 0°-180°







(END OF REPORT)