

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: P579910

Luminaire Tested: **HC415D010-HM40525927-41NDW**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P579910
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-HM40525927-41NDW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" NARROW DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1046.8 lumens
Efficiency: N/A
Efficacy: 74.8 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

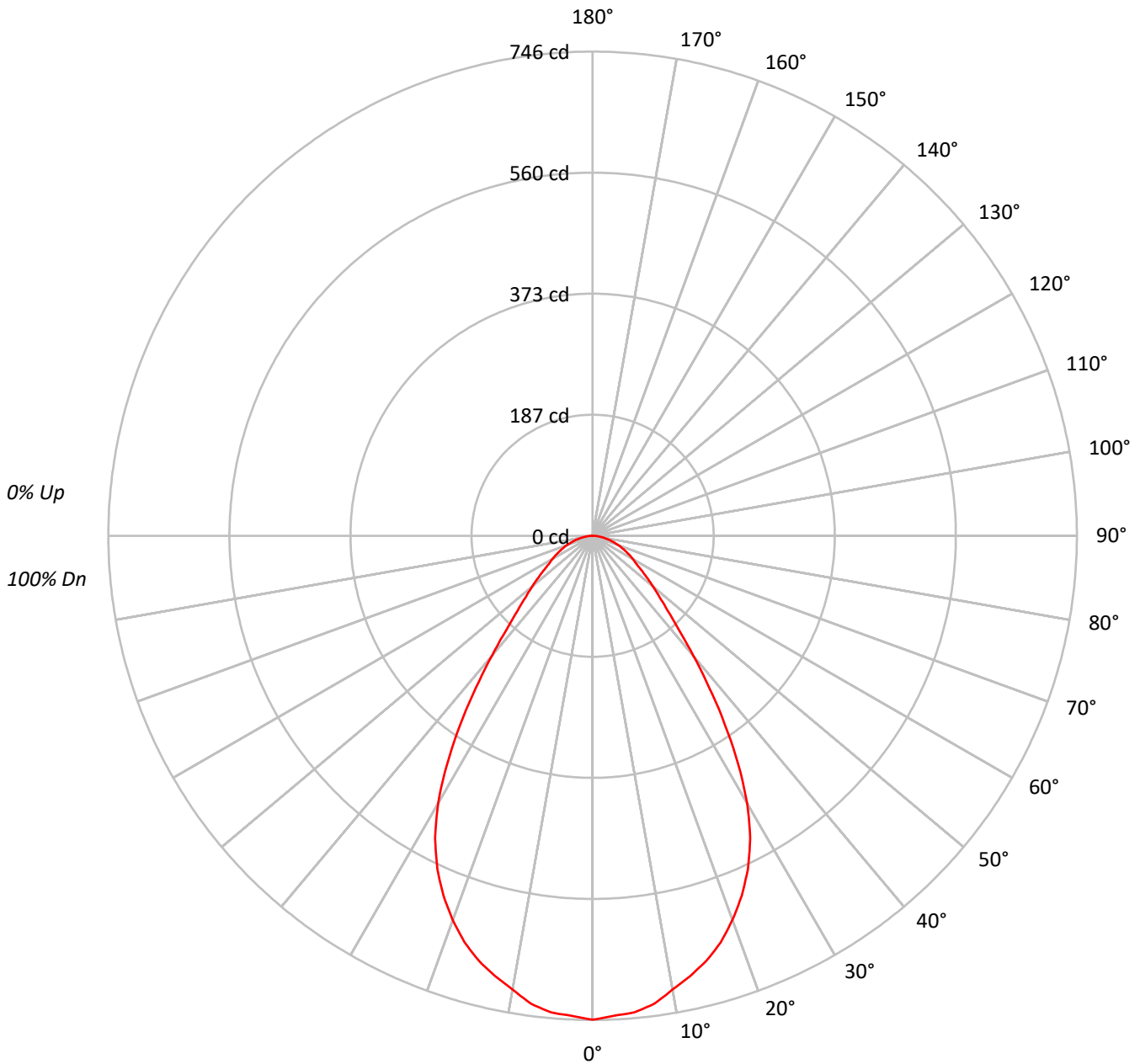
Input Watts (W): 14
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	91966
5°	91278
10°	88901
15°	86566
20°	82682
25°	77031
30°	67838
35°	53500
40°	38837
45°	28538
50°	23219
55°	19462
60°	17638
65°	16198
70°	15075
75°	13773
80°	12431
85°	10756



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.5	6.6
10°-20°	190.1	18.2
20°-30°	257.7	24.6
30°-40°	221.2	21.1
40°-50°	130.6	12.5
50°-60°	82.7	7.9
60°-70°	55.6	5.3
70°-80°	30.7	2.9
80°-90°	8.6	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°	517.4	49.4
0°-40°	738.5	70.6
0°-60°	951.9	90.9
0°-90°	1046.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1046.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	746	
5°	737	70
15°	678	190
25°	566	258
35°	355	221
45°	164	131
55°	90	83
65°	56	56
75°	29	31
85°	8	9
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	745.6
2.5°	740.3
5°	737.2
7.5°	727.3
10°	709.8
12.5°	694.6
15°	677.9
17.5°	656.6
20°	629.9
22.5°	600.2
25°	566.0
27.5°	525.7
30°	476.3
32.5°	417.7
35°	355.3
37.5°	295.2
40°	241.2
42.5°	196.2
45°	163.6
47.5°	140.0
50°	121.0
52.5°	104.9
55°	90.5
57.5°	79.1
60°	71.5
62.5°	63.9
65°	55.5
67.5°	48.7
70°	41.8
72.5°	35.0
75°	28.9
77.5°	22.9
80°	17.5
82.5°	12.2
85°	7.6
87.5°	3.1
90°	0.0



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— 0°-180°







(END OF REPORT)