

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: P592624

Luminaire Tested: **HC415D010-HM40525850-41WDH**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P592624
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-8)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC415D010-HM40525850-41WDH
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1638.3 lumens
Efficiency: N/A
Efficacy: 117.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.11
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

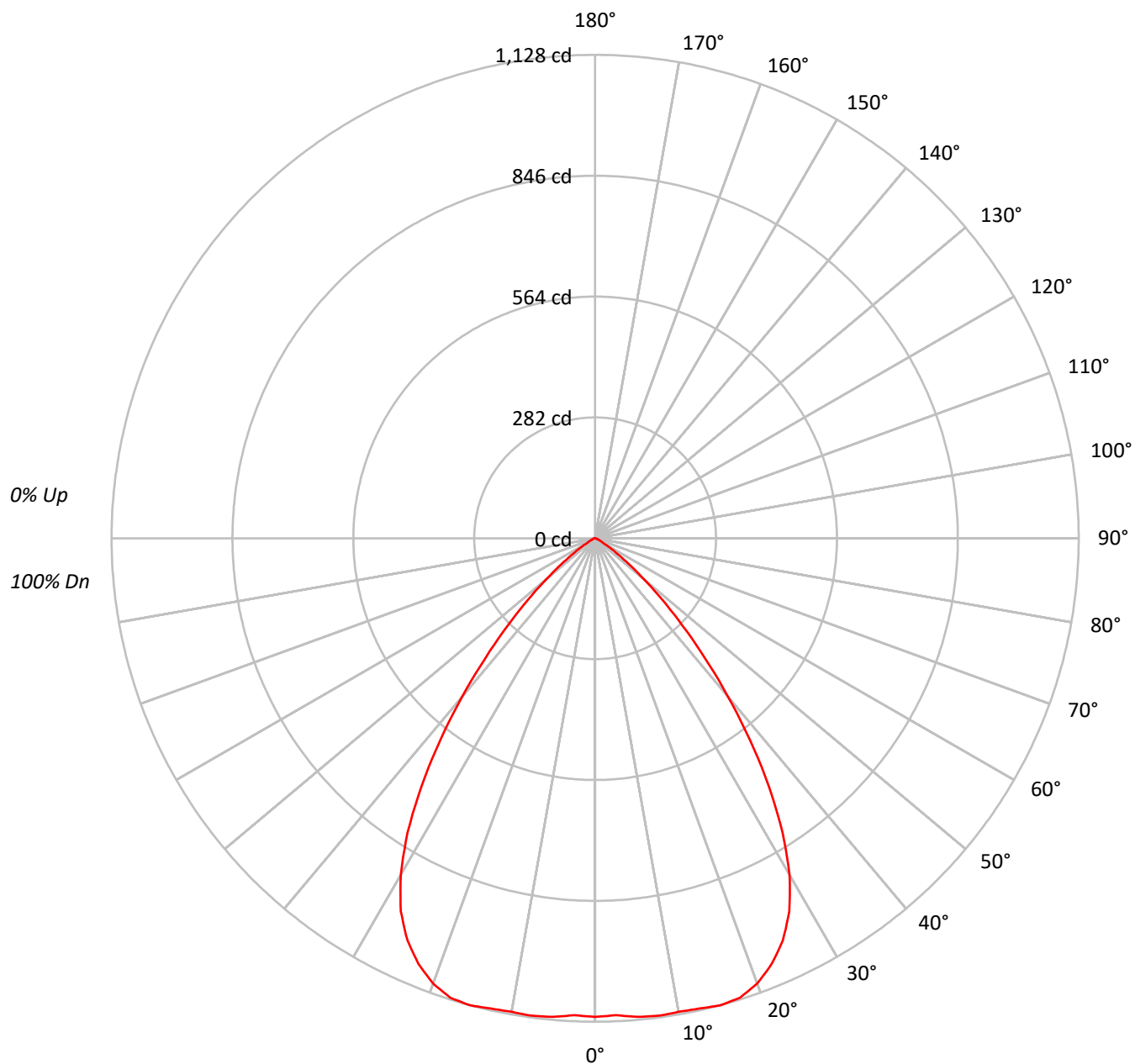
Input Watts (W): 14
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P592624

CATALOG NUMBER: HC415D010-HM40525850-41WDH

Luminous Intensity Polar Plot





TEST NUMBER: P592624

CATALOG NUMBER: HC415D010-HM40525850-41WDH

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	113	110	107	104	110	108	105	103	103	101	100		100	98	97		96
2	106	101	96	92	104	99	95	91	96	92	89		93	90	87		90
3	100	93	87	82	98	91	86	82	88	84	80		86	82	79		84
4	94	85	79	74	92	84	78	74	82	77	73		80	75	72		78
5	88	79	72	67	86	78	72	67	76	70	66		74	69	66		72
6	83	73	66	61	81	72	66	61	70	65	61		69	64	60		68
7	78	68	61	56	77	67	60	56	65	60	55		64	59	55		63
8	74	63	56	51	72	62	56	51	61	55	51		60	55	51		59
9	69	59	52	47	68	58	52	47	57	51	47		56	51	47		55
10	66	55	48	44	65	54	48	44	53	48	44		53	47	44		52

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	137752
5°	138786
10°	140516
15°	144042
20°	145097
25°	140955
30°	129224
35°	106338
40°	77513
45°	50325
50°	28362
55°	13462
60°	5329
65°	3298
70°	2200
75°	1477
80°	710
85°	1415



TEST NUMBER: P592624

CATALOG NUMBER: HC415D010-HM40525850-41WDH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.0	6.5
10°-20°	318.0	19.4
20°-30°	471.7	28.8
30°-40°	435.7	26.6
40°-50°	227.5	13.9
50°-60°	62.4	3.8
60°-70°	12.0	0.7
70°-80°	3.4	0.2
80°-90°	0.7	0.0
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°	896.7	54.7
0°-40°	1332.4	81.3
0°-60°	1622.3	99.0
0°-90°	1638.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1638.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1117	
5°	1121	107
15°	1128	318
25°	1036	472
35°	706	436
45°	288	228
55°	63	62
65°	11	12
75°	3	3
85°	1	1
90°	0	



TEST NUMBER: P592624

CATALOG NUMBER: HC415D010-HM40525850-41WDH

CANDELA DISTRIBUTION (FULL):

	0°
0°	1116.8
2.5°	1113.7
5°	1120.9
7.5°	1123.9
10°	1121.9
12.5°	1123.9
15°	1128.0
17.5°	1123.9
20°	1105.4
22.5°	1075.7
25°	1035.7
27.5°	981.2
30°	907.3
32.5°	814.0
35°	706.2
37.5°	593.3
40°	481.4
42.5°	378.7
45°	288.5
47.5°	211.5
50°	147.8
52.5°	98.6
55°	62.6
57.5°	37.0
60°	21.6
62.5°	15.3
65°	11.3
67.5°	8.2
70°	6.1
72.5°	4.1
75°	3.1
77.5°	2.0
80°	1.0
82.5°	1.0
85°	1.0
87.5°	0.0
90°	0.0



Report Generated By 670245859 / DESKTOP-HRDQ47P





— 0°-180°







(END OF REPORT)