

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: P579925

Luminaire Tested: **HC415D010-HM40525930-41NDC**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P579925
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-1)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC415D010-HM40525930-41NDC
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" NARROW DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1252.6 lumens
Efficiency: N/A
Efficacy: 89.5 lumens/watt
Spacing Criteria (0/90/45): 0.84 / 0.84 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

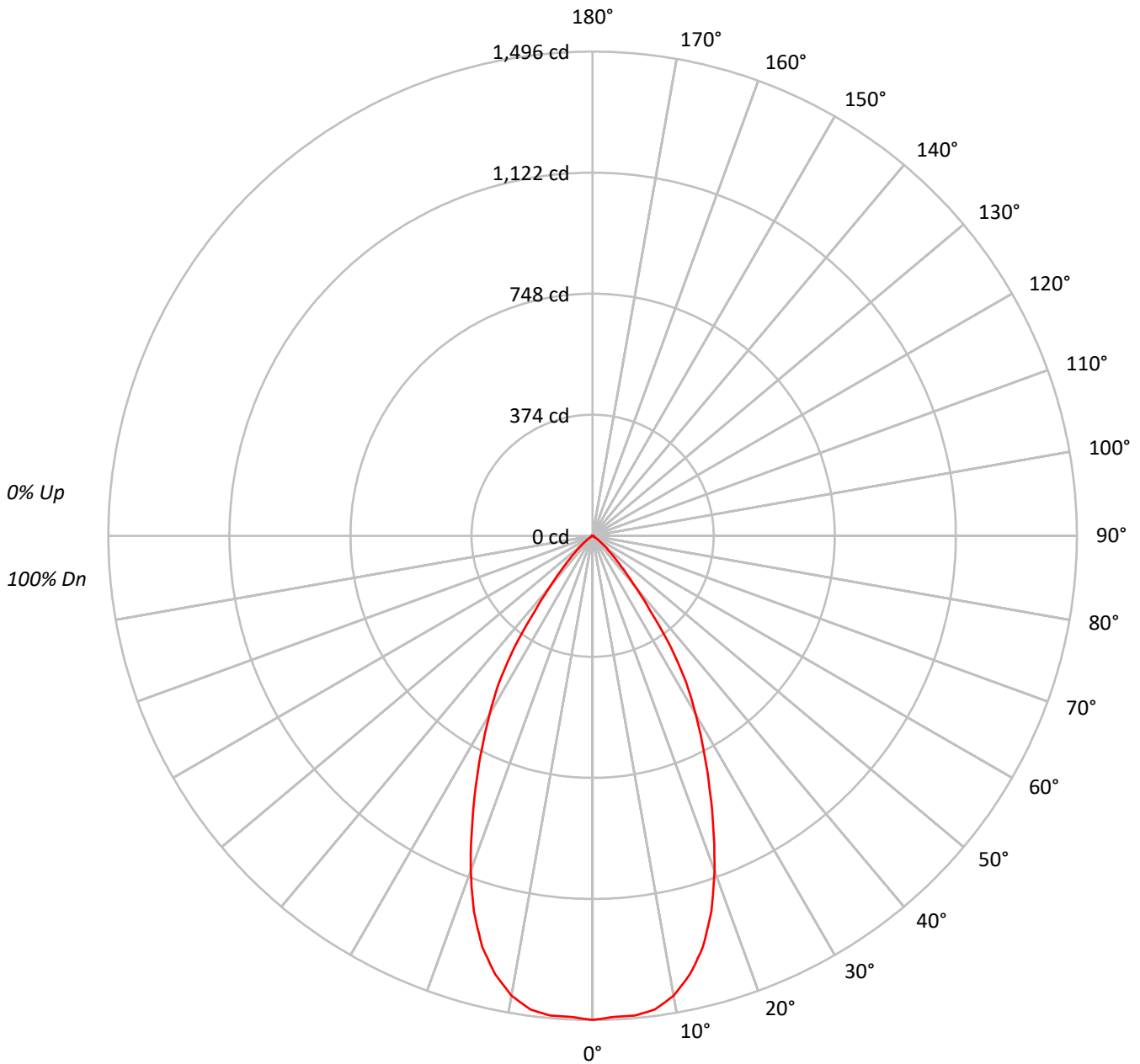
Input Watts (W): 14
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P579925

CATALOG NUMBER: HC415D010-HM40525930-41NDC

Luminous Intensity Polar Plot





TEST NUMBER: P579925

CATALOG NUMBER: HC415D010-HM40525930-41NDC

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	114	111	108	106	111	109	106	104	105	103	101	101	100	98	97	96	95	94			94
2	108	103	99	96	106	101	98	95	98	95	93	95	93	91	93	91	89	87			87
3	103	96	91	87	101	95	90	87	92	88	85	90	87	84	88	85	83	81			81
4	97	90	85	80	96	89	84	80	87	82	79	85	81	78	83	80	77	76			76
5	93	84	79	74	91	83	78	74	82	77	73	80	76	73	78	75	72	71			71
6	88	79	73	69	87	78	73	69	77	72	68	76	71	68	74	70	67	66			66
7	84	75	69	64	82	74	68	64	73	68	64	71	67	64	70	66	63	62			62
8	80	70	64	60	78	70	64	60	69	64	60	68	63	60	67	62	59	58			58
9	76	66	61	57	75	66	60	57	65	60	56	64	59	56	63	59	56	55			55
10	72	63	57	53	71	62	57	53	62	57	53	61	56	53	60	56	53	52			52

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	184500
5°	184264
10°	180671
15°	167998
20°	144480
25°	116077
30°	90626
35°	63453
40°	32557
45°	16519
50°	8271
55°	3075
60°	1258
65°	992
70°	613
75°	381
80°	568
85°	0



TEST NUMBER: P579925

CATALOG NUMBER: HC415D010-HM40525930-41NDC

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.7	11.2
10°-20°	363.2	29.0
20°-30°	391.2	31.2
30°-40°	257.1	20.5
40°-50°	79.9	6.4
50°-60°	15.7	1.3
60°-70°	3.3	0.3
70°-80°	1.2	0.1
80°-90°	0.3	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°	895.1	71.5
0°-40°	1152.2	92.0
0°-60°	1247.8	99.6
0°-90°	1252.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1252.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1496	
5°	1488	141
15°	1316	363
25°	853	391
35°	421	257
45°	95	80
55°	14	16
65°	3	3
75°	1	1
85°	0	0
90°	0	



TEST NUMBER: P579925

CATALOG NUMBER: HC415D010-HM40525930-41NDC

CANDELA DISTRIBUTION (FULL):

	0°
0°	1495.8
2.5°	1488.2
5°	1488.2
7.5°	1476.4
10°	1442.5
12.5°	1388.4
15°	1315.6
17.5°	1218.3
20°	1100.7
22.5°	973.8
25°	852.9
27.5°	740.3
30°	636.3
32.5°	538.1
35°	421.4
37.5°	293.6
40°	202.2
42.5°	139.6
45°	94.7
47.5°	64.4
50°	43.1
52.5°	27.1
55°	14.3
57.5°	5.9
60°	5.1
62.5°	4.2
65°	3.4
67.5°	2.5
70°	1.7
72.5°	1.7
75°	0.8
77.5°	0.8
80°	0.8
82.5°	0.8
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By 670245859 / DESKTOP-HRDQ47P





— 0°-180°







(END OF REPORT)