

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: P579919

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

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P579919
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-10)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC415D010-HM40525930-41WDWB
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1366.0 lumens
Efficiency: N/A
Efficacy: 97.6 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.14 / 1.07
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

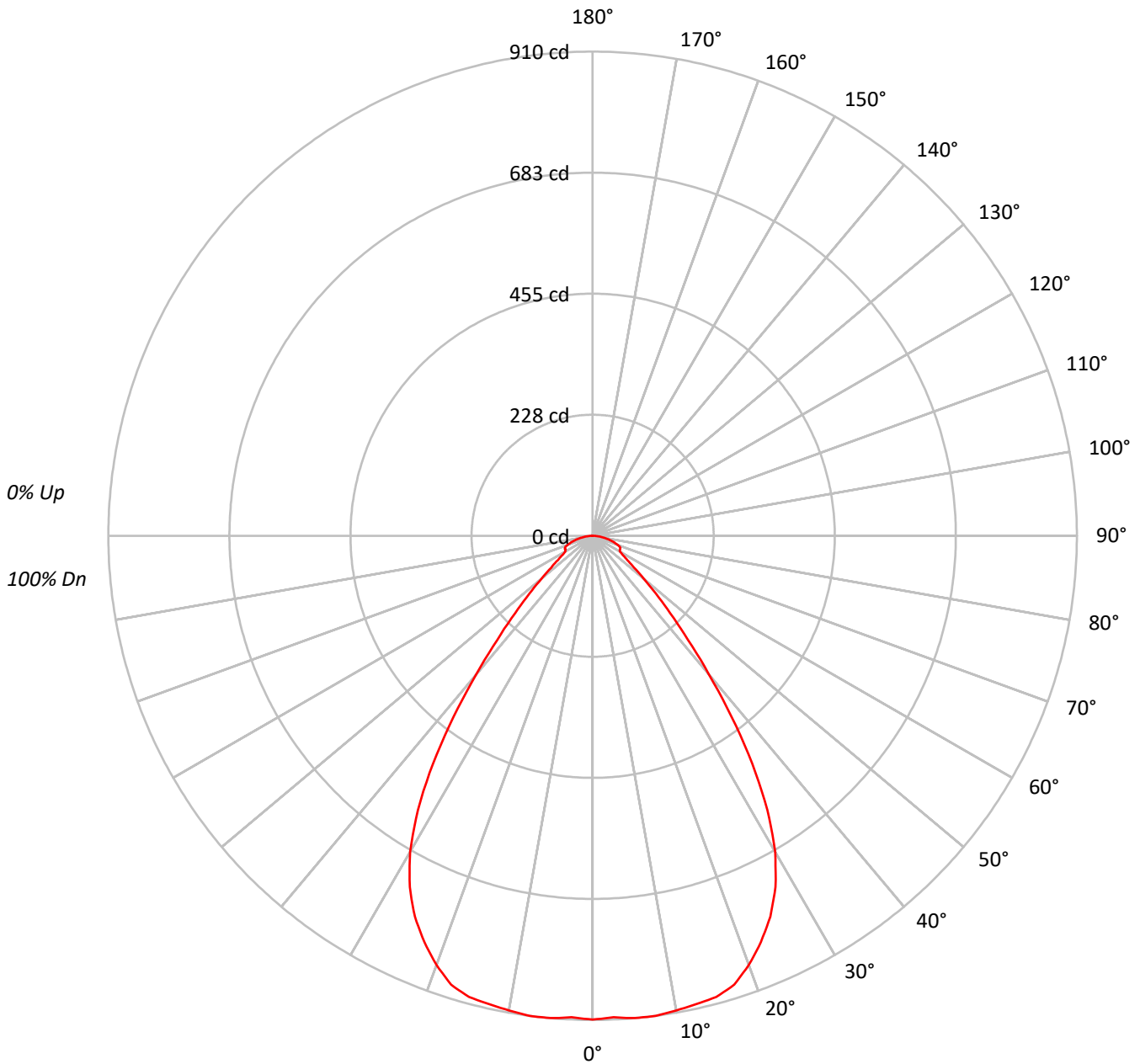
Input Watts (W): 14
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P579919

CATALOG NUMBER: HC415D010-HM40525930-41WDWB

Luminous Intensity Polar Plot





TEST NUMBER: P579919

CATALOG NUMBER: HC415D010-HM40525930-41WDWB

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	75	68	63	84	74	68	63	72	67	62	71	65	61	69	64	61	59			
6	80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	59	56	54			
7	76	64	57	52	74	64	57	52	62	56	52	61	56	51	60	55	51	49			
8	71	60	53	48	70	59	53	48	58	52	48	57	51	47	56	51	47	46			
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42			
10	64	52	46	41	62	52	45	41	51	45	41	50	45	41	49	44	41	39			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	112158
5°	112686
10°	113450
15°	114582
20°	112675
25°	107503
30°	97662
35°	78767
40°	54665
45°	35882
50°	24044
55°	17118
60°	14604
65°	16782
70°	17996
75°	17347
80°	15698
85°	14294



TEST NUMBER: P579919

CATALOG NUMBER: HC415D010-HM40525930-41WDWB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.7	6.3
10°-20°	252.1	18.5
20°-30°	360.2	26.4
30°-40°	321.7	23.6
40°-50°	165.0	12.1
50°-60°	75.0	5.5
60°-70°	55.9	4.1
70°-80°	38.1	2.8
80°-90°	11.2	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°	699.0	51.2
0°-40°	1020.7	74.7
0°-60°	1260.8	92.3
0°-90°	1366.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1366.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	909	
5°	910	87
15°	897	252
25°	790	360
35°	523	322
45°	206	165
55°	80	75
65°	58	56
75°	36	38
85°	10	11
90°	0	



TEST NUMBER: P579919

CATALOG NUMBER: HC415D010-HM40525930-41WDWB

CANDELA DISTRIBUTION (FULL):

	0°
0°	909.3
2.5°	905.8
5°	910.1
7.5°	910.1
10°	905.8
12.5°	901.6
15°	897.3
17.5°	884.7
20°	858.4
22.5°	826.3
25°	789.9
27.5°	744.2
30°	685.7
32.5°	611.3
35°	523.1
37.5°	429.2
40°	339.5
42.5°	264.9
45°	205.7
47.5°	160.9
50°	125.3
52.5°	98.2
55°	79.6
57.5°	66.9
60°	59.2
62.5°	57.5
65°	57.5
67.5°	55.8
70°	49.9
72.5°	43.2
75°	36.4
77.5°	28.8
80°	22.1
82.5°	16.0
85°	10.1
87.5°	4.2
90°	0.0



Report Generated By 670245859 / DESKTOP-HRDQ47P





— 0°-180°







(END OF REPORT)